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Water Resources Data for Connecticut

Water Year 1975

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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-75-1

Prepared in cooperation with the State of Connecticut
and with other agencies

CALENDAR FOR WATER YEAR 1975

1974

OCTOBER

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1975

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JUNE

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31						

SEPTEMBER

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Water Resources Data for Connecticut

Water Year 1975

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-75-1

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16. Abstracts

Water resources data for the 1975 water year for Connecticut consist of records of stage, discharge, and water quality of streams; contents and water quality of lakes and reservoirs; and water levels and water quality in wells. This report contains discharge records for 56 gaging stations; tidal volume for 1 gaging station; stage only records for 3 tidal-gaging stations; contents for 36 lakes and reservoirs; water quality for 16 gaging stations, 39 partial-record flow stations, 3 lakes, 12 tidal stations, and 4 wells; and water levels for 27 observation wells. Also included are 65 crest-stage partial-record stations and 55 low-flow partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Connecticut.

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PREFACE

This report was prepared by the U.S. Geological Survey in cooperation with the State of Connecticut and with other agencies, by personnel of the Connecticut district of the Water Resources Division under the supervision of Frederick H. Ruggles, Jr., District Chief, and Joseph T. Callahan, Regional Hydrologist, Northeastern Region.

This report is one of a series issued State by State under the general direction of J. S. Cragwall, Jr., Chief Hydrologist, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

UNITED STATES DEPARTMENT OF THE INTERIOR

THOMAS S. KLEPPE, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

Prepared in cooperation with

State Department of Environmental Protection
State Department of Transportation
Town of Fairfield, Conservation Commission
City of Hartford, Department of Public Works
City of New Britain, Board of Water Commissioners
City of Torrington, Engineering Department
Corps of Engineers, U.S. Army
Environmental Protection Agency

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Hartford, Connecticut 06101

1976

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[Letters after station name, designate type of data: (d) discharge, (c) chemical, (s), sediment, (st) stage, (t) water temperature, (v) tidal volume]

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[Letters after station name designate type of data:
(c) chemical, (w) water levels]

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414911071562001. (BK 41) (w) 354
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413254072335501. (MT 261) (w) 355
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412429073165101. (NT 15) (w) 359
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413202073122401. (WY 1) (w) 360

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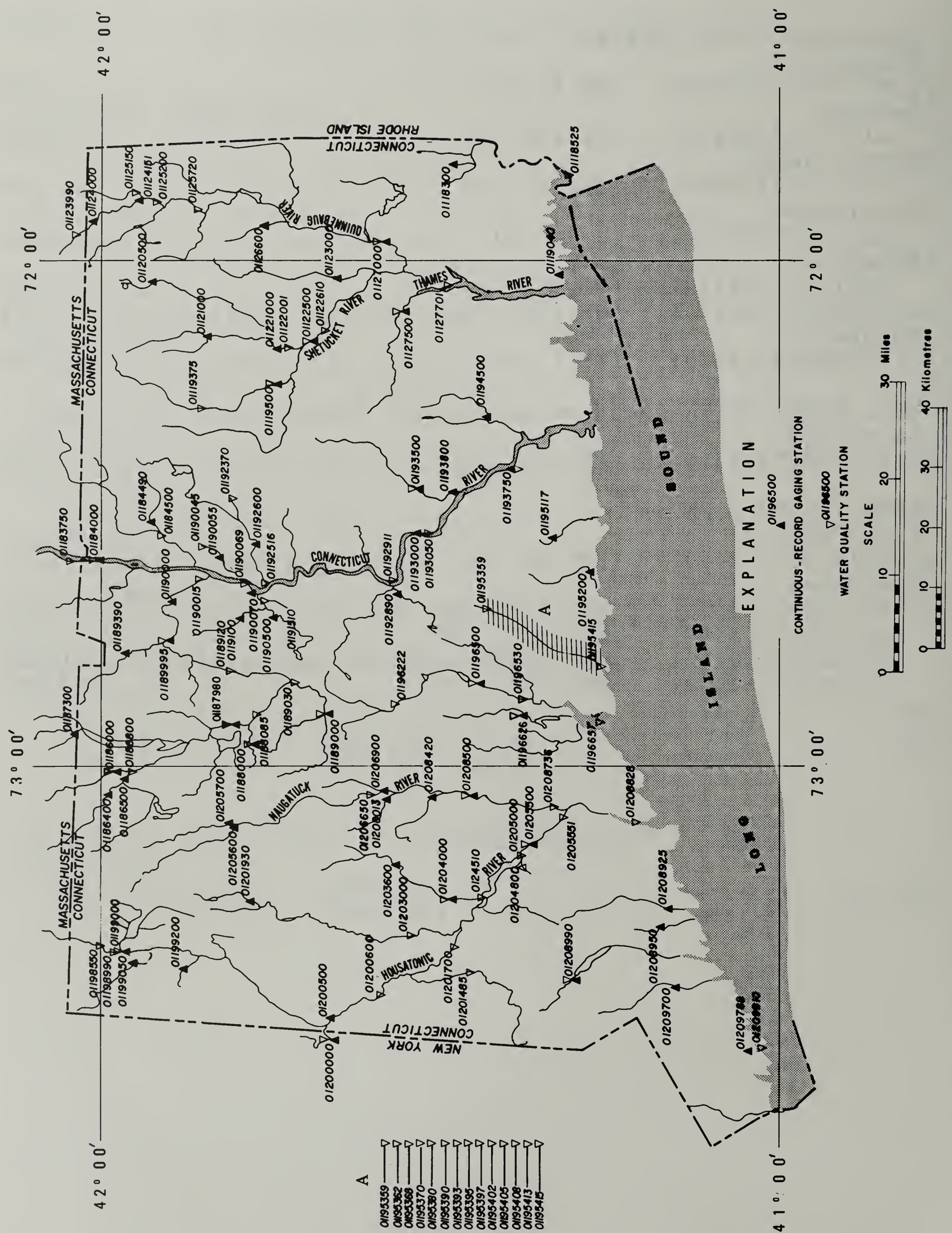

FIGURE 1--MAP OF CONNECTICUT SHOWING LOCATION OF STREAM GAGING AND WATER QUALITY STATIONS

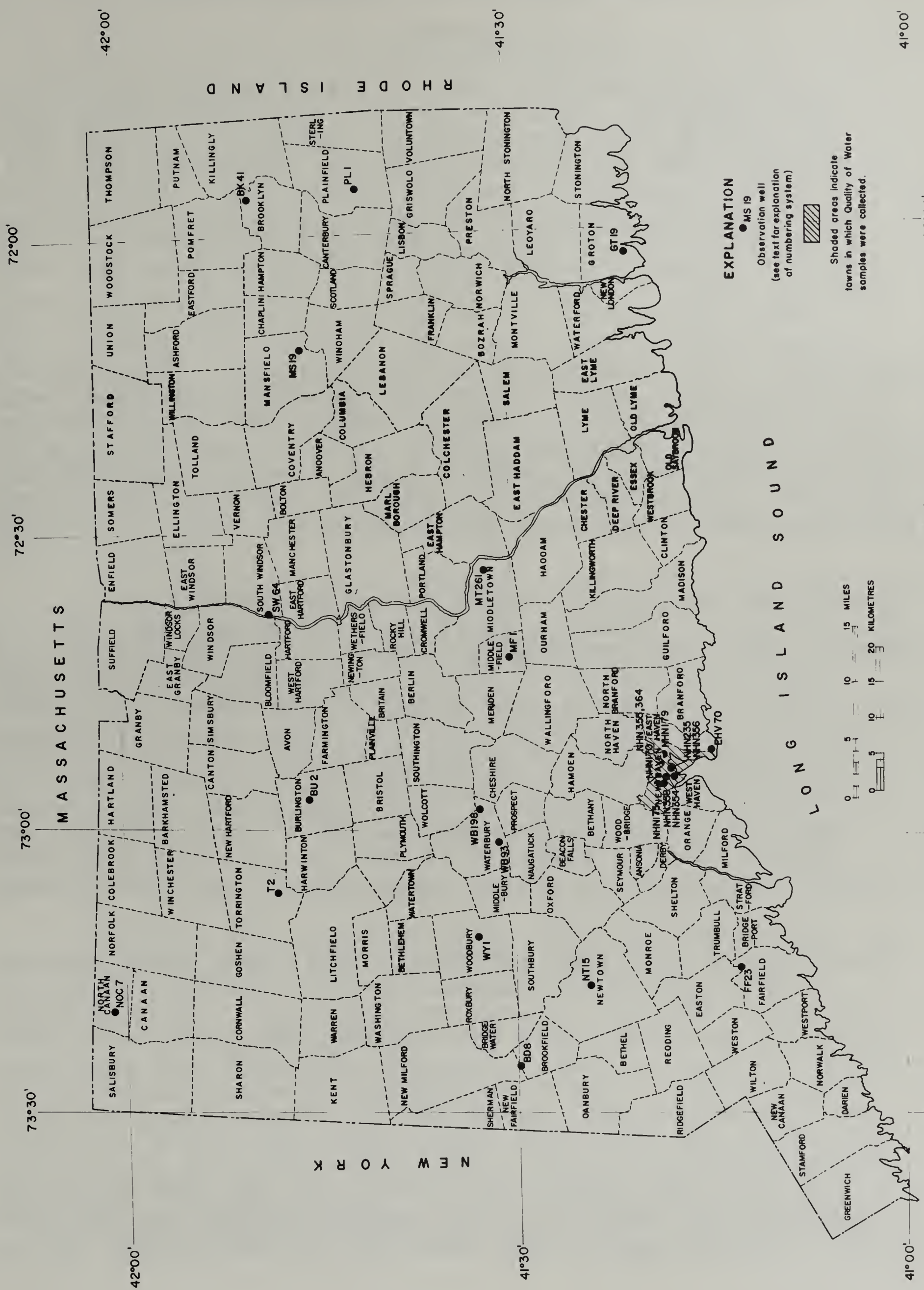

FIGURE 2--MAP OF GROUND WATER QUALITY SAMPLING AREAS

WATER RESOURCES DATA FOR CONNECTICUT, 1975

INTRODUCTION

Water resources data for the 1975 water year for Connecticut consist of records of stage, discharge, and water quality of streams; contents and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 56 gaging stations; tidal volume for 1 gaging station; stage only records for 3 tidal-gaging stations; contents for 36 lakes and reservoirs; water quality for 16 gaging stations, 39 partial-record flow stations, 3 lakes, 2 tidal stations, and 4 wells; and water levels for 27 observation wells. Also included are data for 65 crest-stage partial-record stations and 55 low-flow partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. Locations of hydrologic stations are shown on figures 1 and 2. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Connecticut.

Records of discharge (or stage) of streams, and contents of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through water year 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States."

Beginning with the 1961 water year and continuing through water year 1974, streamflow data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year, and ground-water data since the 1971 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports provided rapid release of preliminary water data shortly after the end of the water year. The final data were then released in the water-supply paper series mentioned above. Beginning with the 1975 water year, water data will be released on a State-boundary basis in final form and will not be republished in the water-supply paper series. The

1975 and subsequent water year reports will be in a series which will carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water Data Report CT-75-1." These reports are for sale to the public for a nominal fee from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, 22151. For more information on publications available, see "PUBLICATIONS" on a subsequent page.

COOPERATION

The U.S. Geological Survey and organizations of the State of Connecticut have had cooperative agreements for the systematic collection of streamflow records since 1928, for water-quality records since 1952, and ground-water records since 1934. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

State Department of Environmental Protection, Joseph Gill, commissioner.

State Department of Transportation, Samuel Kanell, commissioner.

Town of Fairfield, Conservation Commission, Thomas J. Steinke, director.

City of Hartford, Department of Public Works, George E. Heppner, director.

City of New Britain, Board of Water Commissioners, John A. McManus, director Board of Water Commissioners.

City of Torrington, Francis Sattin, director, Public Works.

Assistance in the form of funds was given by the Corps of Engineers, Department of the Army, in collecting records for eight gaging stations published in this report. Funds were furnished by the Environmental Protection Agency for collecting water-quality data for the Connecticut River at Thompsonville, Connecticut.

The following organizations aided in collecting records:

Metropolitan Water Bureau of Hartford; city of Waterbury; Massachusetts Department of Natural Resources; Connecticut Light and Power Co.; city of Wallingford; Farmington River Power Co.; Hartford Electric Light Co.; New Haven Water Co.

Organizations that supplied data are acknowledged in station descriptions.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on page

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic metres.

Bed material is the shifting portion of fragmented material of which the streambed is composed.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 millilitres is determined by the immediate incubation membrane filter method.

Contents is the volume of water in a reservoir, lake, stream or aquifer. Contents herein is that of a reservoir or lake and unless otherwise indicated, is computed on the basis of a level pool and does not include bank storage.

Total capacity is the volume of water which may be stored in a reservoir or lake below the crest of the spillway and includes usable capacity and dead storage. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Usable capacity is the volume of water which may be stored in a reservoir or lake between the spillway crest and the lowest level drainable by gravity.

Usable contents is the volume of water in a reservoir or lake between the lowest level drainable by gravity and any higher elevation above or below the spillway crest.

Continuing-record station is a specified site which meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.

2. When water temperature records include observations taken one or more times daily.

3. When sediment discharge records include those periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (CFS, cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute, or 0.02832 cubic metres per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometre membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage" although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharges are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per litre (UG/L, ug/l) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1}...	.05544	Iron (Fe^{+3})*.....	.05372
Barium (Ba^{+2}).....	.01456	Lead (Pb^{+2})*.....	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*.....	.03060

*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per litre to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170- -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, p.6 . Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, p. 6 .

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of Analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	.004 - .062	Sedimentation
Sand	.062 - 2.0	Sedimentation or sieve
Gravel	2.0 - 64.0	Sieve

The particle-size distribution given in this report is not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

Runoff in inches (IN,in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Such major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per litre by 1.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Total (as used in tables of chemical analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixture in the reservoir. See also table for converting English Units to International Units on p. 32.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

National stream-quality accounting network (NASQAN) is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Radiochemical program is a network of regularly sampled water quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about

35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radiosotopes that are determined in this program are those of uranium in ug/l (micrograms per litre), radium as radium-226 in PC/L (pCi/l, picocuries per litre), gross beta radiation as strontium/yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per litre (ug/l). Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

A picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station,

such as 01188000, which appears just to the left of the station name includes the 2-digit part number "01" plus the 6-digit downstream order number "188000." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 1 (Basins from Maine to Connecticut.) All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

NUMBERING SYSTEM FOR WELLS

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits are a sequential number for the well within a 1-second latitute and longitude quadrangle. The system provides the geographic location of the well and a unique number for each well. See figure 3 below.

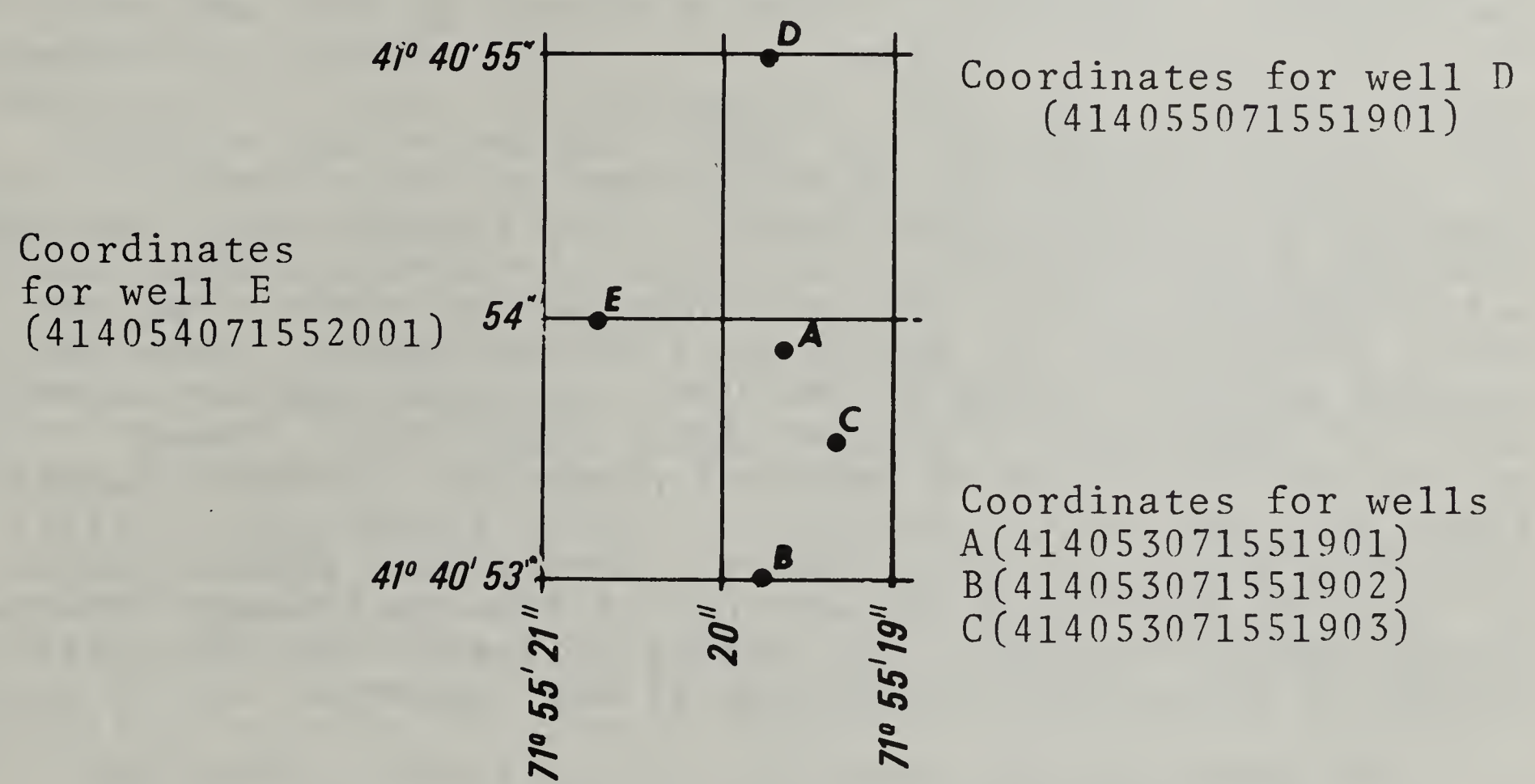

Figure 3. System for numbering wells (latitude and longitude)

Wells in Connecticut also have been assigned a local well number represented by a letter symbol derived from the town in which a well is located and a sequential number based on the order in which the well was located. These well numbers are used on figure 2, p. XV.

EXPLANATION OF SURFACE WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed form the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the

stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to computed daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with

other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." the type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height, if it is significant, are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES"

headed "Period of record:" the data given are for the period of record given in PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and

yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions, are shown in the "REMARKS" paragraph. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the "EXTREMES" paragraph. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

Data collected at partial-record stations are given in two tables at the end of the surface-water records in this

report. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations.

Accuracy of data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation, or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Connecticut for the period October 1960 to September 1965 are in Water-Supply Paper 1901.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and month-end storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Connecticut are compiled in Water-Supply Paper 1301 through September 1950, and in 1701 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also, most gaging station records are available in computer-usable form and many statistical analyses have been made.

EXPLANATION OF WATER QUALITY RECORDS

Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water stations, no descriptive statements are given; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

Water-quality information is presented for chemical, biological, microbiological quality, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density

greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using Table 3, p.24.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definitions of Terms," p. 3 and table for converting English Units to SI Units, p. 32.

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory (1971). Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar (1967), Lamar, Goerlitz, and Law (1965), and Goerlitz and Brown (1972). The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others (1973).

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

The daily chemical-quality data in this report generally represent equal-volume composites for 2- to 30-day periods; the composite periods are selected on the basis of specific conductance of the daily samples and fluctuation of water discharge.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey district office at the address given on the back of the title page of this report.

Ground-water quality normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*°C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples are collected, daily loads of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Publications

The annual series of Water-Supply Papers that contain information on quality of surface water in Connecticut are listed below:

Water year	WSP No.	Water year	WSP No.
1953	1290	1962	1941
1954	1350	1963	1947
1955	1400	1964	1954
1956	1450	1965	1961
1957	1520	1966	1991
1958	1571	1967	2011
1959	1641	1968	2091
1960	1741	1969	2143
1961	1881	1970	*2151
		1971	*2161

*In press.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic national network of observation wells are published herein. These water-level measurements are intended to provide a sampling and historical record of water-level changes in the nation's most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude as shown in figure 3, and (2) a local number that is provided for continuity with older records and for other use as dictated by local needs.

Measurements are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well insure that measurements at each well are of consistent accuracy and reliability.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the precise level or altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Abbreviations

Standard abbreviations are used in the well description. The most commonly used abbreviations and their explanations are as follows:

diam--diameter
ft--foot or feet
in--inch or inches
lat--latitude
long--longitude
lsd--land-surface datum
msl--mean sea level
MP--measuring point

Publications

Publication of ground-water level data for the United States in Water-Supply Papers was begun by the Geological Survey in 1935. From 1935 through 1939, a single Water-Supply Paper for each year covering the entire nation was issued (Water-Supply Papers 777, 817, 840, 845, and 886). From 1940 through 1974, separate Water-Supply Papers were issued for 6 sections of the United States. Water-level data for Connecticut are in the Water-Supply Papers listed below, each report containing one or more calendar years (January-December) of data. Beginning in 1967, ground-water level data in Connecticut were published in the annual series of reports, Water Resources Data for Connecticut. Data in this series of reports are on a water-year basis. Data in this report are for the 12-month water year ending September 30.

Calendar year	WSP No.	Calendar year	WSP No.	Calendar year	WSP No.	Calendar years	WSP No.
1935	777	1942	944	1949	1156	1956-57	1537
1936	817	1943	986	1950	1165	1958-62	1782
1937	840	1944	1016	1951	1191	1963-67	1977
1938	845	1945	1023	1952	1221	1968-72	2140
1939	886	1946	1071	1953	1265		
1940	906	1947	1096	1954	1321		
1941	936	1948	1126	1955	1404		

Information about reports and other data on ground water in Connecticut may be obtained from the district office, at the address given on the back of the title page.

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Table 4.--Factors for converting English units to International System units (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4047	square metres (m^2)
	.4047	*hectares (ha)
	.4047	square hectometres (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm^3)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3785	cubic metres (m^3)
	3.785×10^{-3}	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-days [(ft^3/s) · d]	2447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	1.233×10^{-6}	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	6.309×10^{-5}	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
tons (short)	.9072	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

SECTION 1. SURFACE WATER RECORDS

01118300 PENDLETON HILL BROOK NEAR CLARKS FALLS, CONN.

LOCATION.--Lat 41°28'29", long 71°50'05", New London County, on left bank just upstream from twin culverts on Grindstone Hill Road, 0.1 mi (0.2 km) west of State Highway 49 in the township of North Stonington, 1.6 mi (2.6 km) northwest of Clarks Falls, and 3.4 mi (5.5 km) northeast of village of North Stonington.

DRAINAGE AREA.--4.02 mi^2 (10.41 km^2).

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 152.90 ft (46.604 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 8.44 ft^3/s (0.239 m^3/s), 28.51 in/yr (724 mm/yr).

EXTREMES.--Current year: Maximum discharge, 84 ft^3/s (2.38 m^3/s) Apr. 3, gage height, 3.20 ft (0.975 m); minimum, 0.08 ft^3/s (0.002 m^3/s) Sept. 11, 12, gage height, 0.79 ft (0.241 m).

Period of record: Maximum discharge, 344 ft^3/s (9.74 m^3/s) Mar. 18, 1968, gage height, 5.91 ft (1.801 m); minimum, 0.02 ft^3/s (0.001 m^3/s) Sept. 7-11, 1964, Sept. 12, 13, 1965.

PEAK DISCHARGE.--(BASE, 70 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
04-03	1700	3.20	84

REMARKS.--Records excellent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	3.4	2.9	12	11	15	11	7.6	4.6	1.9	.63	.56
2	2.5	3.2	17	12	9.8	14	9.8	8.9	4.3	1.7	.57	.40
3	2.0	3.0	17	9.0	8.7	13	38	9.5	3.1	1.5	.51	.35
4	1.8	2.9	10	8.2	7.8	12	47	9.3	2.9	1.4	.45	.26
5	1.7	3.1	6.9	7.5	7.7	11	29	11	2.8	1.4	.50	.23
6	1.6	3.5	5.4	6.8	8.9	10	22	9.3	16	1.3	.45	.17
7	1.5	3.3	5.6	11	9.0	11	18	8.6	13	1.3	2.4	.17
8	1.4	3.0	13	12	8.6	12	16	8.0	7.8	1.4	2.6	.17
9	1.4	2.9	28	24	7.8	11	14	7.4	5.6	1.4	2.6	.17
10	1.4	2.8	17	24	7.3	9.3	13	7.1	4.6	1.2	1.3	.14
11	1.4	2.7	12	19	6.8	9.5	12	6.9	3.4	1.2	.91	.08
12	1.4	2.6	9.3	19	6.3	11	11	6.7	6.0	7.9	.69	.45
13	1.4	3.2	8.2	25	6.5	16	11	8.0	41	7.8	.50	2.9
14	1.5	3.4	7.6	31	6.5	13	10	7.8	30	4.8	.45	1.0
15	1.6	3.2	7.1	21	6.3	13	9.3	6.9	19	3.4	.35	.56
16	6.7	3.0	11	16	6.5	13	8.9	15	13	2.6	.30	.40
17	9.5	2.8	30	13	7.0	13	8.6	13	11	2.4	.45	.35
18	6.2	2.8	19	16	7.8	12	8.0	9.1	9.8	4.1	.45	.30
19	4.3	2.8	14	28	10	11	8.0	7.4	8.2	2.6	.35	.30
20	3.4	4.1	11	24	12	32	7.8	6.5	7.1	1.8	.26	.35
21	3.1	8.5	10	18	11	25	7.2	5.8	5.6	2.3	.20	.45
22	2.9	6.4	10	15	11	18	6.9	5.3	4.8	1.7	.23	.45
23	2.8	4.6	9.4	14	15	15	6.7	4.9	4.1	1.2	.23	2.3
24	2.7	3.8	8.7	13	30	14	8.9	4.6	3.6	1.0	.20	11
25	2.6	3.6	12	19	44	15	14	4.3	3.1	3.1	.30	13
26	2.7	3.7	13	29	29	13	12	3.8	2.8	2.9	.35	8.6
27	2.8	3.4	9.9	20	21	11	10	3.8	2.6	1.7	.35	11
28	2.7	3.2	9.1	15	17	10	9.0	4.1	2.7	1.2	.23	7.6
29	2.6	3.1	8.5	16	---	10	8.6	3.2	2.8	1.0	.17	4.8
30	2.6	3.0	8.5	15	---	13	8.2	2.7	2.6	.83	1.0	2.9
31	3.0	---	8.3	13	---	13	---	4.3	---	.69	1.1	---
TOTAL	86.5	105.0	359.4	525.5	340.3	418.8	403.9	220.8	247.9	70.72	21.08	71.41
MEAN	2.79	3.50	11.6	17.0	12.2	13.5	13.5	7.12	8.26	2.28	.68	2.38
MAX	9.5	8.5	30	31	44	32	47	15	41	7.9	2.6	13
MIN	1.4	2.6	2.9	6.8	6.3	9.3	6.7	2.7	2.6	.69	.17	.08
CFSM	.69	.87	2.89	4.23	3.03	3.36	3.36	1.77	2.05	.57	.17	.59
IN.	.80	.97	3.33	4.86	3.15	3.88	3.74	2.04	2.29	.65	.20	.66

CAL YR 1974 TOTAL 2732.91 MEAN 7.49 MAX 48 MIN .08 CFSM 1.86 IN 25.29
WTR YR 1975 TOTAL 2871.31 MEAN 7.87 MAX 47 MIN .08 CFSM 1.96 IN 26.57

01118525 PAWCATUCK RIVER NEAR PAWCATUCK, CONN.

LOCATION.--Lat 41°19'37", long 71°50'59", New London County, at Graves Neck, 3 mi (5 km) south of Pawcatuck.

DRAINAGE AREA.--303 mi^2 (785 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH (FT)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.												
23...	1025	1.0	7.6	14.5	9.0	9.9	93	4.9	20	140	30	110
23...	1045	7.0	8.1	14.5	10.0	8.5	89	.9	40	130	10	80
NOV.												
19...	1330	1.0	8.0	11.5	7.5	11.8	98	1.9	40	190	50	30
19...	1345	7.0	8.0	11.5	8.5	10.4	89	.9	50	290	60	30
DEC.												
10...	0955	1.0	7.2	.0	4.0	11.4	91	6.1	10	110	60	30
10...	1010	7.0	7.9	.0	3.0	8.5	77	1.5	40	230	170	20
JAN.												
08...	0945	1.0	8.0	2.5	2.5	11.8	96	4.2	30	110	40	30
08...	1000	7.0	8.1	2.5	5.0	10.8	100	1.0	40	240	40	20
FEB.												
04...	1205	1.0	7.3	-4.0	1.0	13.2	97	5.6	30	130	680	180
04...	1220	7.0	8.1	-4.0	4.0	10.7	99	.8	0	0	0	10
MAR.												
17...	1320	1.0	8.4	11.0	4.5	11.7	101	2.1	30	90	30	10
17...	1340	7.0	8.3	11.0	4.0	10.2	96	.3	40	120	30	20
APR.												
22...	1355	1.0	8.3	10.5	12.5	12.3	119	2.1	20	70	40	10
MAY												
20...	1355	1.0	7.6	21.5	15.5	8.4	89	2.5	20	130	40	10
20...	1400	7.0	8.1	21.5	11.5	10.3	110	.1	40	150	30	10
JUNE												
23...	1340	1.0	7.6	24.0	22.0	9.0	79	4.5	20	150	60	20
23...	1350	6.0	7.9	24.0	16.0	10.1	99	1.1	50	130	40	30
JULY												
08...	1310	1.0	8.1	23.5	22.5	6.0	111	1.8	40	100	40	20
08...	1320	9.0	8.0	23.5	19.0	5.3	96	.6	60	140	50	20
AUG.												
19...	1315	1.0	8.3	24.0	22.0	12.0	136	2.1	40	60	20	20
19...	1325	9.0	8.2	24.0	21.5	10.1	115	.5	50	110	30	30
SEP.												
09...	1035	1.0	8.0	22.0	20.0	--	--	.7	50	110	30	30
09...	1040	10	8.1	22.0	20.0	--	--	.7	50	110	40	40

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
23...	140	470	53	0	43	820	6300	.00	.18	.30	.39	.40
23...	230	1100	125	0	103	2200	18000	.01	.07	.12	.15	.23
NOV.												
19...	280	750	95	0	78	1600	14000	.00	.18	.10	.13	.28
19...	360	1000	121	0	99	2400	18000	.00	.06	.11	.14	1.8
DEC.												
10...	90	240	32	0	26	470	3600	.00	.22	.26	.33	.43
10...	310	1300	103	0	84	2100	15000	.00	.10	.14	.18	.40
JAN.												
08...	170	640	61	0	50	1100	8200	.00	.22	.10	.13	.33
08...	340	1100	114	0	94	2300	17000	.00	.09	.09	.12	.59
FEB.												
04...	77	250	30	0	25	570	3600	.00	.28	.06	.08	.61
04...	320	1100	120	0	98	2300	17000	.00	.13	.08	.10	.15
MAR.												
17...	210	750	85	0	70	1500	11000	.01	.05	.06	.08	.25
17...	330	110	125	0	103	2300	17000	.00	.01	.05	.06	.34
APR.												
22...	83	260	37	0	30	570	4000	.00	.22	.09	.12	.33
MAY												
20...	100	330	45	0	37	660	5200	.00	.17	.09	.12	.42
20...	210	1000	125	0	103	2300	17000	.00	.03	.00	.00	.39
JUNE												
23...	80	960	53	0	43	740	5400	.01	.20	.15	.19	.68
23...	330	1100	121	0	99	2300	17000	.01	.03	.04	.05	.58
JULY												
08...	260	780	107	0	88	1700	13000	.01	.06	.06	.08	.59
08...	580	950	128	0	105	2300	17000	.01	.00	.01	.01	.46
AUG.												
19...	220	800	91	0	75	1500	11000	.00	.01	.04	.05	.66
19...	340	1100	118	0	97	2300	17000	.00	.01	.03	.04	.72
SEP.												
09...	390	1200	156	0	128	2200	16000	.01	.01	.00	.00	.32
09...	390	1200	126	0	103	2300	17000	.01	.01	.00	.00	.43

01118525 PAWACTUCK RIVER NEAR PAWACTUCK, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DEPTH (FT)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	SALINITY (PPT)
OCT.												
23...	1.0	.10	.58	2.6	.07	12600	12900	17.5	2300	2200	9200	15
23...	7.0	.11	.30	1.3	.05	34900	31000	42.2	5100	5000	22000	30
NOV.												
19...	1.0	.18	.46	2.0	.05	26900	24600	33.5	3800	3700	26500	23
19...	7.0	1.7	1.9	8.2	.39	35300	31800	43.2	5000	4900	33900	29
DEC.												
10...	1.0	.17	.65	2.9	.05	6970	6960	9.47	1200	1200	7800	7.5
10...	7.0	.26	.50	2.2	.06	29100	28700	39.0	6100	6000	29000	29
JAN.												
08...	1.0	.23	.55	2.4	.05	16300	15200	20.7	3100	3000	19500	17
08...	7.0	.50	.68	3.0	.15	32400	31000	42.2	5400	5300	29600	29
FEB.												
04...	1.0	.55	.89	3.9	.03	6890	6790	9.23	1200	1200	7600	7.0
04...	7.0	.07	.28	1.2	.05	34700	31700	43.1	5300	5200	28800	30
MAR.												
17...	1.0	.19	.30	1.3	.04	22200	20400	27.7	3600	3500	19000	18
17...	7.0	.29	.35	1.6	.05	33900	31500	42.8	1300	1200	29000	31
APR.												
22...	1.0	.24	.55	2.4	.07	7880	7320	9.96	1300	1200	9200	5.0
MAY												
20...	1.0	.33	.59	2.6	.05	10100	9960	13.5	1600	1600	16000	9.0
20...	7.0	.39	.42	1.9	.08	33000	32200	43.8	4600	4500	34000	25
JUNE												
23...	1.0	.53	.88	3.9	.07	14300	10600	14.4	4200	4100	1600	1.0
23...	6.0	.54	.61	2.7	.09	42100	32100	43.7	5400	5300	4000	3.0
JULY												
08...	1.0	.53	.65	2.9	.08	27300	24300	33.0	3900	3800	33600	21
08...	9.0	.45	.46	2.0	.09	34800	34000	46.2	5400	5300	41400	27
AUG.												
19...	1.0	.62	.67	3.0	.08	24200	21200	28.8	3800	3800	31500	21
19...	9.0	.69	.73	3.2	.06	33700	33200	45.2	5400	5300	37500	26
SEP.												
09...	1.0	.32	.33	1.5	.05	33400	31100	42.3	5900	5800	45000	33
09...	10	.43	.44	1.9	.05	34600	33000	44.9	5900	5800	46000	34

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.												
23...	30	1	2.1	730	120	25	8.8	0	.0	1.0	.5	--
23...	3	1	1.6	1	<1	1	1.8	0	.1	1.7	.0	--
NOV.												
19...	8	2	1.5	40	1	1	2.6	0	.1	3.0	.5	0
19...	30	3	1.9	16	1	<1	2.9	0	.1	6.5	2.0	0
DEC.												
10...	60	2	3.2	1700	850	B130	7.9	0	.1	1.7	.3	--
10...	10	1	2.1	130	16	52	4.9	0	.0	7.0	2.0	--
JAN.												
08...	7	2	1.0	480	90	60	4.4	1	.0	1.3	1.0	--
08...	2	10	1.4	B28	3	3	2.6	0	.1	14	2.0	--
FEB.												
04...	40	2	2.4	1800	150	37	5.0	0	.0	.3	.0	--
04...	9	1	1.5	220	110	14	7.3	0	.1	.0	.0	--
MAR.												
17...	4	1	.5	54	8	3	2.9	0	.0	--	--	--
17...	4	3	1.0	10	1	1	5.2	0	.0	--	--	--
APR.												
22...	25	2	.3	32	6	4	6.8	0	.0	--	--	--
MAY												
20...	40	2	1.8	340	160	4	8.5	--	.0	.0	.0	--
20...	1	3	1.6	5	1	<1	2.4	0	.1	.7	.0	--
JUNE												
23...	40	2	2.1	50000	5000	20	5.9	0	.1	6.7	.0	--
23...	13	22	2.4	2400	100	5	9.2	0	.1	9.0	.0	--
JULY												
08...	10	1	1.4	440	130	16	4.4	0	.1	5.0	.0	--
08...	3	2	2.0	24	2	2	3.1	0	.1	4.3	.0	--
AUG.												
19...	4	2	.7	150	140	<1	6.0	0	.1	35	.0	--
19...	4	15	1.2	36	9	<1	4.5	0	.1	13	.0	--
SEP.												
09...	1	1	2.5	2	1	1	6.4	0	.2	.0	.0	--
09...	1	7	1.6	2	4	6	3.1	0	.0	6.3	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01118525 PAWACTUCK RIVER NEAR PAWACTUCK, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	2,4-D IN BOTTOM MA-TERIAL (UG/KG)
OCT. 23...	.0	8	6.1	10	.0	.2	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MA-TERIAL (UG/KG)	SILVEX IN BOTTOM MA-TERIAL (UG/KG)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG)	ETHION IN BOTTOM MA-TERIAL (UG/KG)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG)	PCB IN BOTTOM MA-TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 23...	0	0	.0	.0	.0	.0	.0	.0	.0	43	4	23

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	LOSS ON IGNI-TION IN BOTTOM MA-TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT. 23...	100	3.8	89800	4	1	35	29	7700	33	35	.4	57

01119040 POQUONOCK RIVER NEAR GROTON, CONN.

LOCATION.--Lat 41°19'00", long 72°03'43", New London County, at pier on east side of Avery Point, University of Connecticut, 2 mi (3 km) south of Groton, at mouth of Poquonock River in Long Island Sound.

PERIOD OF RECORD.--January 1973 to current year.

GAGE.--Water-stage recorder. Datum of staff gage is 2.02 ft (0.616 m) below mean sea level. Datum of gage-height record is 10.00 ft (3.48 m) below mean sea level in order to prevent negative values and is converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Stage data in feet at 15-minute intervals available upon request.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	2.67	3.78	5.03	2.98	3.13	3.40	3.84	2.57	2.73	2.66	2.29	2.59
high tide	Date	17	13	2	26	25	14	3	24	8	9	31	6
	Time	0300	0815	0845	0730	0815	2245	1500	2045	2015	2130	1630	0915
Minimum	Elevation	-1.88	-2.10	-1.97	-2.85	-2.77	-3.00	-2.24	-1.64	-1.66	-1.38	-1.02	-1.81
low tide	Date	15	16	27	30	26	27	27	24	23	15	22	7
	Time	0800	1700	1445	0515	1645	0330	0430	0245	0330	0830	1545	0415

NOTE.--Time shown is eastern standard. Missing record Dec. 11-16 and July 17 to Aug. 21.

01119375 WILLIMANTIC RIVER AT MERROW, CONN.

LOCATION.--Lat 41°50'07", long 72°18'38", Tolland County, at bridge on State Highway 195, 0.7 mi (1.1 km) upstream from Merrow.

DRAINAGE AREA.--94.0 mi^2 (243.5 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
29...	0905	105	6.7	17.5	6.0	12.0	96	8.8	30	200	40	30
NOV.												
18...	0855	124	6.7	7.0	2.5	13.6	100	8.3	20	190	70	20
DEC.												
02...	0830	300	6.5	6.5	2.5	13.9	101	8.0	10	160	30	20
JAN.												
07...	0940	154	6.5	1.0	1.0	14.0	98	8.7	0	90	20	10
FEB.												
03...	0935	162	6.3	-2.0	.0	14.2	98	9.0	0	90	30	10
MAR.												
04...	0935	185	6.6	-4.5	.5	14.4	100	8.1	0	110	30	0
APR.												
07...	0950	323	6.7	.5	3.5	13.1	98	7.1	10	80	20	0
MAY												
06...	0915	162	6.5	16.0	9.0	11.9	103	6.6	10	120	20	0
JUNE												
09...	0935	130	6.7	18.0	14.0	10.0	96	8.0	0	320	40	10
JULY												
07...	0930	35	6.6	23.0	22.0	8.6	98	7.8	20	250	30	10
AUG.												
18...	1030	21	6.8	24.0	21.5	8.2	92	8.4	10	250	20	0
SEP.												
08...	1000	23	6.7	20.5	17.0	9.8	100	8.1	10	240	30	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
29...	6.8	10	7	0	6	19	82	.01	.21	.23	.30	.37
NOV.												
18...	3.0	1.1	7	0	6	8.1	7.7	.01	.20	.18	.23	.21
DEC.												
02...	4.5	1.3	6	0	5	19	18	.01	.26	.13	.17	.33
JAN.												
07...	3.2	1.2	7	0	6	8.2	7.2	.00	.22	.24	.31	.39
FEB.												
03...	3.3	1.6	7	0	6	9.0	7.4	.00	.24	.06	.08	.20
MAR.												
04...	3.7	1.1	7	0	6	7.0	8.0	.01	.22	.23	.30	.34
APR.												
07...	3.5	.9	5	0	4	6.6	6.8	.00	.17	.03	.04	.12
MAY												
06...	3.5	.8	7	0	6	6.3	8.5	.00	.23	.22	.28	.45
JUNE												
09...	3.5	1.0	10	0	8	5.7	7.3	.01	.17	.05	.06	.36
JULY												
07...	5.5	1.5	14	0	11	10	13	.01	.50	.01	.01	.42
AUG.												
18...	5.9	1.7	10	0	8	7.4	13	.00	.45	.01	.01	.44
SEP.												
08...	8.0	.9	11	0	9	8.4	12	.01	.63	.00	.00	.23

01119375 WILLIMANTIC RIVER AT MERROW, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
29...	.14	.58	2.6	.08	64	184	52.2	.25	58	52	74	30
NOV.												
18...	.03	.41	1.8	.04	54	61	20.4	.08	12	6	63	30
DEC.												
02...	.20	.59	2.6	.05	57	50	40.5	.07	17	12	67	30
JAN.												
07...	.15	.61	2.7	.07	74	27	11.2	.04	13	7	75	20
FEB.												
03...	.14	.44	1.9	.02	47	41	17.9	.06	15	9	61	20
MAR.												
04...	.11	.56	2.5	.04	58	47	23.5	.06	14	8	62	20
APR.												
07...	.09	.29	1.3	.02	46	42	36.6	.06	12	8	56	9
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
06...	.23	.68	3.0	.05	44	44	19.2	.06	12	6	60	26
JUNE												
09...	.31	.53	2.3	.05	43	39	13.7	.05	13	5	56	50
JULY												
07...	.41	.92	4.1	.08	66	54	5.10	.07	20	8	84	25
AUG.												
18...	.43	.89	3.9	.10	64	65	3.69	.09	22	14	97	17
SEP.												
08...	.23	.86	3.8	.08	73	70	4.35	.10	24	15	86	10

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
29...	2	2.2	6000	1200	120	9.5	1	.0	.3	.0	--
NOV.											
18...	2	2.2	320	80	31	4.2	0	.0	.3	.0	0
DEC.											
02...	2	3.0	2900	1500	780	5.4	0	.0	4.0	.0	--
JAN.											
07...	3	3.5	16000	2100	320	4.8	0	.0	--	--	--
FEB.											
03...	1	5.6	850	430	43	2.9	0	.0	.0	.0	--
MAR.											
04...	2	2.8	2800	120	95	4.6	0	.0	.0	.0	--
APR.											
07...	1	1.6	730	120	14	--	0	.1	.0	.0	--
28...	--	--	--	--	--	5.8	--	--	--	--	--
MAY											
06...	2	3.5	1100	52	26	3.9	0	.0	.0	.0	--
JUNE											
09...	3	3.2	4800	280	190	12	0	.0	.0	.0	--
JULY											
07...	2	5.6	7500	380	640	4.8	0	.0	.0	.0	--
AUG.											
18...	2	2.5	1200	140	96	6.8	0	.0	.0	.0	--
SEP.											
08...	4	3.5	1500	170	220	6.4	0	.1	.0	.0	--

01119375 WILLIMANTIC RIVER AT MERROW, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 29...	.0	0	.4	.0	.0	2.9	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 29...	0	0	.0	.0	.0	.0	.0	.0	.0	0	1	3

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 29...	100	2.6	15300	1	0	6	5	820	4	38	.1	6

01119500 WILLIMANTIC RIVER NEAR SOUTH COVENTRY, CONN.

LOCATION.--Lat 41°45'02", long 72°15'58", Tolland County, on left bank 700 ft (213 m) upstream from bridge on State Highway 31, 1 mi (2 km) downstream from Mill Brook, 2.4 mi (3.9 km) southeast of South Coventry, 2.8 mi (4.5 km) upstream from Hop River, and 6.3 mi (10.1 km) upstream from mouth.

DRAINAGE AREA.--122 mi^2 (316 km^2).

PERIOD OF RECORD.--Discharge: September 1931 to current year.
Chemical analyses: May 1956, October 1956 to August 1957, December 1962 to July 1964, May to September 1975.
Water temperatures: October 1956 to September 1957, May to September 1975.

GAGE.--Water-stage recorder. Datum of gage is 239.05 ft (72.862 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE (adjusted for storage since water year 1961).--44 years, 209 ft^3/s (5.918 m^3/s), 23.26 in/yr (591 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	418	392	157	200	303	402	341	171	122	67	50	63
2	295	298	633	200	272	364	335	188	120	53	46	46
3	234	226	796	200	249	330	711	199	112	45	30	43
4	197	239	503	200	213	289	1290	204	146	41	27	40
5	171	272	355	200	213	259	754	289	161	37	40	32
6	149	327	292	200	254	251	564	231	367	38	41	32
7	140	278	256	230	236	251	478	229	358	46	55	27
8	135	241	376	300	215	281	411	199	256	37	84	26
9	131	210	1000	405	217	254	364	177	193	34	112	40
10	131	186	955	389	210	231	332	165	153	41	77	37
11	119	184	600	442	190	226	313	157	129	43	57	30
12	113	184	500	767	170	236	284	151	190	61	61	70
13	108	246	450	848	150	308	270	292	520	117	51	112
14	96	241	400	857	170	284	262	350	408	231	46	67
15	108	213	370	557	180	254	249	262	289	262	41	48
16	395	193	350	435	220	246	239	256	222	177	40	43
17	702	169	560	364	230	284	224	229	197	128	26	38
18	445	169	560	353	230	278	213	188	179	96	24	37
19	308	169	450	694	250	275	213	173	155	75	34	37
20	234	173	400	598	250	1590	219	155	135	58	32	37
21	206	316	400	431	250	1160	206	144	115	278	31	40
22	199	347	300	402	250	673	186	133	96	281	35	41
23	179	264	250	353	270	513	179	128	75	167	34	103
24	165	219	250	321	450	455	246	115	79	113	17	300
25	163	210	250	389	1200	478	319	96	75	115	23	568
26	190	210	230	677	1200	411	303	90	70	113	28	517
27	169	186	230	520	543	344	251	108	69	70	31	2270
28	153	171	230	402	458	303	229	138	73	60	26	1410
29	155	157	220	398	---	292	215	113	82	63	20	694
30	147	157	210	431	---	386	182	98	82	57	110	445
31	347	---	200	358	---	411	---	122	---	52	112	---
TOTAL	6702	6847	12733	13121	9043	12319	10382	5550	5228	3056	1441	7293
MEAN	216	228	411	423	323	397	346	179	174	98.6	46.5	243
MAX	702	392	1000	857	1200	1590	1290	350	520	281	112	2270
MIN	96	157	157	200	150	226	179	90	69	34	17	26
(†)	-0.9	-1.7	+2.5	0	0	0	-0.3	-0.4	+0.7	-2.8	-6.0	+9.0
MEAN‡	215	226	414	423	323	397	346	179	173	95.8	40.5	252
CFSM‡	1.76	1.85	3.39	3.47	2.65	3.25	2.84	1.47	1.42	0.79	0.33	2.07
IN‡	2.03	2.06	3.91	4.00	2.76	3.75	3.17	1.70	1.58	0.91	0.38	2.31

CAL YR 1974	TOTAL 86729	MEAN 238	MAX 1320	MIN 20	MEAN‡ 238	CFSM‡ 1.95	IN‡ 26.41
WTR YR 1975	TOTAL 93715	MEAN 257	MAX 2270	MIN 17	MEAN‡ 257	CFSM‡ 2.11	IN‡ 28.56

†Change in contents in Staffordville Reservoir, equivalent in cubic feet per second.

‡Adjusted for change in contents.

01119500 WILLIMANTIC RIVER NEAR SOUTH COVENTRY CONN.--continued

EXTREMES.--Current year: Maximum discharge, 2,690 ft^3/s (76.2 m^3/s) Sept. 27, gage height, 8.78 ft (2.676 m); minimum, 16 ft^3/s (0.45 m^3/s) Aug. 24, 29, gage height, 2.92 ft (0.890 m); minimum daily, 18 ft^3/s (0.51 m^3/s) Aug. 24.
Specific conductance: Maximum recorded, 111 micromhos Sept. 4; minimum recorded, 55 micromhos June 13-15.
Water temperatures: Maximum, 29.0°C July 18, 19; minimum, 10.0°C May 6.

Period of record: Maximum discharge, 24,200 ft^3/s (685 m^3/s) Aug. 19, 1955, gage height, 18.66 ft (5.688 m), from flood mark, from rating curve extended above 3,600 ft^3/s (102 m^3/s) on basis of computation of flow over dam at gage height 12.2 ft (3.72 m), and contracted-opening measurement of peak flow; minimum, 2.0 ft^3/s (0.057 m^3/s) Aug. 21, 22, 1949, gage height, 1.60 ft (0.488 m); minimum daily, 2.5 ft^3/s (0.071 m^3/s) Sept. 18, 1949.
Specific conductance: Maximum recorded, 111 micromhos Sept. 4, 1975; minimum recorded, 55 micromhos June 13-15, 1975.
Water temperatures: Maximum, 29.0°C July 18, 19, 1975; minimum, freezing point on many days during Jan. 1957.

PEAK DISCHARGE.--(BASE, 1,100 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-02	2000	6.46	1,130
01-13	2100	6.53	1,160
02-25	Unknown	-	about 1,500
03-20	1700	7.77	1,910
04-03	2200	7.23	1,560
09-27	1500	8.78	2,690

REMARKS.--Records excellent. Flow regulated by Staffordville Reservoir (see p.94). High flow regulated by six flood detention reservoirs in Middle River basin, combined usable flood capacity, 305,400,000 ft^3, (8,649,000 m^3). See REVISIONS summary paragraph in WSP 1901.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) . WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	74	68	73
2	---	---	---	---	---	---	---	---	---	80	71	73
3	---	---	---	---	---	---	---	---	---	77	71	74
4	---	---	---	---	---	---	---	---	---	76	69	72
5	---	---	---	---	---	---	---	---	---	68	64	66
6	---	---	---	---	---	---	---	---	---	73	61	65
7	---	---	---	---	---	---	---	---	---	73	66	68
8	---	---	---	---	---	---	---	---	---	74	66	69
9	---	---	---	---	---	---	---	---	---	77	68	71
10	---	---	---	---	---	---	---	---	---	74	70	71
11	---	---	---	---	---	---	---	---	---	76	69	72
12	---	---	---	---	---	---	---	---	---	80	70	73
13	---	---	---	---	---	---	---	---	---	77	72	74
14	---	---	---	---	---	---	---	---	---	72	63	66
15	---	---	---	---	---	---	---	---	---	69	61	65
16	---	---	---	---	---	---	---	---	---	71	64	67
17	---	---	---	---	---	---	---	---	---	68	67	67
18	---	---	---	---	---	---	---	---	---	71	66	68
19	---	---	---	---	---	---	---	---	---	73	67	69
20	---	---	---	---	---	---	---	---	---	77	70	73
21	---	---	---	---	---	---	---	---	---	80	75	77
22	---	---	---	---	---	---	---	---	---	82	77	79
23	---	---	---	---	---	---	---	---	---	84	79	81
24	---	---	---	---	---	---	---	---	---	88	82	84
25	---	---	---	---	---	---	---	---	---	86	83	84
26	---	---	---	---	---	---	---	---	---	85	83	84
27	---	---	---	---	---	---	---	---	---	88	83	85
28	---	---	---	---	---	---	---	---	---	88	82	84
29	---	---	---	---	---	---	---	---	---	84	82	83
30	---	---	---	---	---	---	---	---	---	86	82	84
31	---	---	---	---	---	---	---	---	---	85	82	84
MONTH	---	---	---	---	---	---	---	---	---	88	61	74

01119500 WILLIMANTIC RIVER NEAR SOUTH COVENTRY CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM at 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975-- continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	84	82	83	---	---	---	---	---	---	---	---	---
2	84	80	82	---	---	---	---	---	---	108	97	106
3	82	80	81	---	---	---	---	---	---	110	96	106
4	82	78	80	---	---	---	---	---	---	111	108	109
5	81	75	79	---	---	---	---	---	---	---	---	---
6	76	59	68	---	---	---	---	---	---	---	---	---
7	58	57	58	---	---	---	---	---	---	---	---	---
8	59	57	58	---	---	---	---	---	---	---	---	---
9	63	58	60	---	---	---	---	---	---	---	---	---
10	71	62	66	---	---	---	---	---	---	---	---	---
11	76	68	72	---	---	---	---	---	---	---	---	---
12	75	66	71	---	---	---	---	---	---	---	---	---
13	65	55	59	98	89	95	---	---	---	---	---	---
14	56	55	55	88	70	78	---	---	---	---	---	---
15	58	55	57	72	68	70	---	---	---	---	---	---
16	---	---	---	73	69	71	---	---	---	---	---	---
17	---	---	---	75	74	75	---	---	---	---	---	---
18	---	---	---	79	75	78	---	---	---	---	---	---
19	---	---	---	83	78	81	---	---	---	---	---	---
20	---	---	---	98	79	81	---	---	---	---	---	---
21	---	---	---	81	64	70	---	---	---	---	---	---
22	---	---	---	65	60	61	---	---	---	---	---	---
23	---	---	---	68	61	66	---	---	---	---	---	---
24	---	---	---	72	67	70	---	---	---	---	---	---
25	---	---	---	75	71	73	---	---	---	---	---	---
26	---	---	---	79	74	77	---	---	---	---	---	---
27	---	---	---	82	77	80	---	---	---	---	---	---
28	---	---	---	86	77	89	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	111	55	75									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	13.5	12.5	13.0
2	---	---	---	---	---	---	---	---	---	12.5	11.5	12.0
3	---	---	---	---	---	---	---	---	---	14.0	11.0	12.5
4	---	---	---	---	---	---	---	---	---	13.5	12.5	13.0
5	---	---	---	---	---	---	---	---	---	12.0	10.5	11.0
6	---	---	---	---	---	---	---	---	---	13.0	10.0	11.5
7	---	---	---	---	---	---	---	---	---	15.5	12.0	13.5
8	---	---	---	---	---	---	---	---	---	16.5	13.5	15.0
9	---	---	---	---	---	---	---	---	---	17.0	13.5	15.0
10	---	---	---	---	---	---	---	---	---	16.5	14.0	15.0
11	---	---	---	---	---	---	---	---	---	17.5	14.0	15.5
12	---	---	---	---	---	---	---	---	---	17.5	15.0	16.5
13	---	---	---	---	---	---	---	---	---	17.5	16.5	16.5
14	---	---	---	---	---	---	---	---	---	19.0	16.0	17.5
15	---	---	---	---	---	---	---	---	---	20.0	17.5	18.5
16	---	---	---	---	---	---	---	---	---	19.5	17.5	18.5
17	---	---	---	---	---	---	---	---	---	20.0	16.5	18.0
18	---	---	---	---	---	---	---	---	---	19.0	17.0	18.0
19	---	---	---	---	---	---	---	---	---	22.0	17.0	19.5
20	---	---	---	---	---	---	---	---	---	24.5	19.0	21.5
21	---	---	---	---	---	---	---	---	---	24.5	20.5	22.0
22	---	---	---	---	---	---	---	---	---	22.0	20.0	21.0
23	---	---	---	---	---	---	---	---	---	24.0	20.0	21.5
24	---	---	---	---	---	---	---	---	---	27.0	21.0	24.0
25	---	---	---	---	---	---	---	---	---	21.5	19.0	20.5
26	---	---	---	---	---	---	---	---	---	20.0	18.5	19.0
27	---	---	---	---	---	---	---	---	---	22.5	18.0	20.0
28	---	---	---	---	---	---	---	---	---	22.0	18.5	20.0
29	---	---	---	---	---	---	---	---	---	24.0	19.0	21.5
30	---	---	---	---	---	---	---	---	---	21.5	19.5	20.0
31	---	---	---	---	---	---	---	---	---	20.5	20.0	20.0
MONTH	---	---	---	---	---	---	---	---	---	27.0	10.0	17.5

01119500 WILLIMANTIC RIVER NEAR SOUTH COVENTRY CONN.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	20.0	20.5	---	---	---	---	---	---	---	---	---
2	23.0	19.5	21.0	---	---	---	---	---	---	21.5	19.5	20.5
3	20.5	19.5	20.0	---	---	---	---	---	---	20.5	19.0	19.5
4	20.5	19.0	19.5	---	---	---	---	---	---	22.0	17.5	20.0
5	18.5	16.5	17.5	---	---	---	---	---	---	---	---	---
6	16.5	15.0	15.5	---	---	---	---	---	---	---	---	---
7	17.0	15.0	16.0	---	---	---	---	---	---	---	---	---
8	16.5	15.5	16.5	---	---	---	---	---	---	---	---	---
9	17.5	15.0	16.0	---	---	---	---	---	---	---	---	---
10	19.5	15.5	17.5	---	---	---	---	---	---	---	---	---
11	21.5	16.5	19.0	---	---	---	---	---	---	---	---	---
12	19.0	16.5	17.5	---	---	---	---	---	---	---	---	---
13	16.5	16.0	16.5	24.0	23.0	23.5	---	---	---	---	---	---
14	18.5	16.5	17.5	23.5	23.0	23.5	---	---	---	---	---	---
15	19.5	18.5	19.0	25.0	23.0	24.0	---	---	---	---	---	---
16	---	---	---	26.5	24.5	25.0	---	---	---	---	---	---
17	---	---	---	28.0	25.5	26.5	---	---	---	---	---	---
18	---	---	---	29.0	25.5	27.0	---	---	---	---	---	---
19	---	---	---	29.0	25.5	26.5	---	---	---	---	---	---
20	---	---	---	27.0	25.0	26.0	---	---	---	---	---	---
21	---	---	---	27.0	25.0	25.5	---	---	---	---	---	---
22	---	---	---	27.0	24.5	25.5	---	---	---	---	---	---
23	---	---	---	27.0	25.0	25.5	---	---	---	---	---	---
24	---	---	---	27.5	25.5	26.0	---	---	---	---	---	---
25	---	---	---	26.5	23.5	25.0	---	---	---	---	---	---
26	---	---	---	26.5	21.0	23.5	---	---	---	---	---	---
27	---	---	---	26.0	21.0	23.0	---	---	---	---	---	---
28	---	---	---	26.5	21.5	23.5	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	29.0	10.0	19.5									

01120500 SAFFORD BROOK NEAR WOODSTOCK VALLEY, CONN.

LOCATION.--Lat 41°55'35", long 72°03'37", Windham County, on right bank at downstream side of bridge on Hopkins Road, 0.3 mi (0.5 km) downstream from Bradford Brook, 0.3 mile (0.5 km) upstream from mouth, 1.2 mi (1.9 km) southeast of Woodstock Valley, and 2 mi (3 km) southwest of West Woodstock.

DRAINAGE AREA.--4.15 mi^2 (10.75 km^2).

PERIOD OF RECORD.--June 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 522.92 ft (159.386 m) above mean sea level.

AVERAGE DISCHARGE.--25 years, 7.93 ft^3/s (0.225 m^3/s), 25.95 in/yr (659 mm/yr).

EXTREMES.--Current year: Maximum discharge, 232 ft^3/s (6.57 m^3/s) Mar. 20, gage height, 4.81 ft (1.466 m); minimum, 0.02 ft^3/s (0.001 m^3/s) Aug. 29, gage height, 1.46 ft (0.445 m).

Period of record: Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) Aug. 19, 1955, gage height, 6.68 ft (2.036 m). No flow Aug. 30, 31, Sept. 6-12, 1965.

PEAK DISCHARGE.--(BASE, 150 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
03-20	0700	4.81	232
04-03	1800	4.26	158

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	12	4.9	7.8	8.9	14	8.2	3.3	1.9	.51	.13	.51
2	7.6	7.8	54	7.4	7.5	12	7.2	4.1	1.5	.44	.11	.33
3	6.5	6.6	27	5.9	6.0	10	64	4.6	1.3	.38	.10	.24
4	3.4	8.8	14	5.6	4.5	9.2	46	5.2	1.6	.28	.12	.14
5	2.9	10	10	4.9	4.3	8.2	19	7.6	1.6	.24	.12	.08
6	2.6	12	8.8	4.6	7.3	6.6	13	5.5	9.1	.17	.10	.06
7	2.5	8.2	8.2	5.6	5.8	6.4	10	5.8	6.1	.20	.30	.08
8	2.1	6.8	27	6.3	5.6	9.7	9.1	4.6	3.1	.20	.92	.05
9	1.7	5.8	48	13	5.2	8.4	8.4	3.9	2.1	.20	.74	.17
10	2.0	5.1	16	14	5.0	7.0	7.6	3.3	1.5	.20	.51	.12
11	1.7	4.8	12	41	4.9	5.2	6.5	2.9	1.2	.17	.38	.10
12	1.9	4.8	10	59	4.8	7.0	5.8	2.6	2.9	.74	.28	1.2
13	1.8	10	10	60	4.7	12	5.2	8.2	12	1.1	.24	1.9
14	1.9	8.6	9.4	38	4.6	8.7	4.9	8.0	7.6	1.2	.22	.83
15	1.9	6.8	8.6	22	4.3	7.3	4.6	5.8	3.9	1.0	.20	.44
16	39	5.8	9.0	15	4.3	8.9	4.4	4.9	2.4	.66	.17	.33
17	31	4.9	25	11	4.5	11	4.1	4.9	2.2	.51	.17	.33
18	11	4.5	17	26	4.7	10	3.7	3.7	2.2	.38	.20	.28
19	7.4	3.9	11	43	6.0	15	4.1	3.1	1.8	.28	.15	.28
20	6.1	5.4	9.8	22	7.3	137	4.6	2.6	1.4	.30	.13	.28
21	4.9	23	9.0	17	6.6	34	4.1	2.6	1.1	2.0	.10	.44
22	4.3	14	9.4	12	7.0	14	3.7	1.8	.92	.90	.15	.44
23	4.6	9.4	8.8	11	9.5	12	3.3	1.6	.83	.50	.14	3.3
24	4.5	8.2	8.6	9.2	49	10	6.5	1.4	.66	.35	.13	11
25	4.6	8.0	8.2	19	84	13	9.3	1.3	.58	.60	.15	17
26	5.1	7.8	7.4	33	34	10	9.5	1.3	.51	.70	.17	12
27	4.5	6.8	7.0	17	19	7.6	6.5	1.4	.51	.40	.14	46
28	4.0	6.1	6.3	12	15	6.1	5.2	1.3	.51	.25	.06	13
29	3.9	6.1	6.1	14	---	5.8	4.4	1.0	.74	.20	.03	6.1
30	4.0	5.6	6.3	16	---	12	3.7	.92	.83	.20	1.5	3.1
31	18	---	6.5	11	---	11	---	1.8	---	.15	.92	---
TOTAL	207.4	237.6	423.3	583.3	334.3	449.1	296.6	111.02	74.59	15.41	8.78	120.13
MEAN	6.69	7.92	13.7	18.8	11.9	14.5	9.89	3.58	2.49	.50	.28	4.00
MAX	39	23	54	60	84	137	64	8.2	12	2.0	1.5	46
MIN	1.7	3.9	4.9	4.6	4.3	5.2	3.3	.92	.51	.15	.03	.05
CFSM	1.61	1.91	3.30	4.53	2.87	3.49	2.38	.86	.60	.12	.07	.96
IN.	1.86	2.13	3.79	5.23	3.00	4.03	2.66	1.00	.67	.14	.08	1.08

CAL YR 1974 TOTAL 2903.15 MEAN 7.95 MAX 136 MIN .17 CFSM 1.92 IN 26.02
WTR YR 1975 TOTAL 2861.53 MEAN 7.84 MAX 137 MIN .03 CFSM 1.89 IN 25.65

01121000 MOUNT HOPE RIVER NEAR WARRENVILLE, CONN.

LOCATION.--Lat 41°50'37", long 72°10'10", Windham County, on left bank 250 ft (76 m) downstream from Knowlton Brook, 700 ft (213 m) upstream from bridge on State Highway 89, 1.8 mi (2.9 km) south of Warrenville, and 3.2 mi (5.1 km) southwest of Ashford.

DRAINAGE AREA.--28.6 mi^2 (74.1 km^2).

PERIOD OF RECORD.--Discharge: July 1940 to current year.
Chemical analyses: October 1958 to September 1959.

GAGE.--Water-stage recorder. Datum of gage is 335.57 ft (102.282 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 49.5 ft^3/s (1.402 m^3/s), 23.50 in/yr (597 mm/yr).

EXTREMES.--Current year: Maximum discharge, 771 ft^3/s (21.8 m^3/s) Dec. 9, gage height, 6.07 ft (1.850 m); minimum, 1.5 ft^3/s (0.042 m^3/s) Aug. 21, 22; gage height, 1.21 ft (0.697 m).

Period of record: Maximum discharge, 5,590 ft^3/s (158 m^3/s) Aug. 19, 1955, gage height, 10.41 ft (3.173 m), from rating curve extended above 890 ft^3/s (25.2 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 0.15 ft^3/s (0.004 m^3/s) Aug. 25, 1957; minimum gage height, 0.99 ft (0.302 m) Aug. 26-29, 1949.

Flood of September 1938 reached a stage of about 14.5 ft (4.42 m), from floodmarks.

REVISIONS.--The figures of peak discharge for water year 1974 have been revised, as shown in the following table. They supersede figures published in WRD Connecticut, 1974.

REVISED PEAK DISCHARGE.--Jan. 22 (0900) 460 cfs (4.80 ft); Jan. 27 (1900) 565 cfs (5.30 ft); Aug. 28 (2400) 590 cfs (5.40 ft).

PEAK DISCHARGE.--(BASE, 400 ft^3/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-16	1930	4.61	422	02-24	2400	5.07	514
12-02	1600	5.04	508	03-20	0630	5.95	735
12-09	0130	6.07	771	04-03	1800	5.89	717
01-13	1900	4.62	424	09-27	0800	5.30	565

REMARKS.--Records good. Occasional regulation from ponds upstream. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	70	38	58	69	95	75	40	21	5.8	3.4	6.9
2	75	51	226	56	66	83	67	49	19	5.0	3.2	4.2
3	58	42	189	48	61	72	287	51	14	4.5	3.0	3.8
4	48	61	99	46	54	68	296	52	22	4.2	3.4	3.4
5	42	68	72	45	46	63	161	67	20	3.8	3.6	3.2
6	38	77	64	43	55	57	123	52	95	6.1	3.0	2.4
7	34	64	57	52	52	58	101	47	55	7.6	5.5	2.1
8	30	54	141	56	51	73	87	40	36	6.1	8.2	1.9
9	28	43	461	107	46	60	78	36	26	5.2	10	2.6
10	26	38	164	111	45	62	68	35	20	5.5	5.2	2.4
11	25	35	110	169	42	50	63	34	16	4.7	4.7	1.9
12	24	35	92	235	40	57	58	31	51	18	6.1	19
13	24	56	83	257	38	83	54	67	172	33	4.0	31
14	23	49	74	232	40	63	52	56	88	31	3.2	12
15	23	43	67	139	45	60	49	42	54	25	2.4	7.6
16	187	37	68	106	50	63	47	52	40	16	2.3	5.8
17	218	34	183	85	55	70	44	45	36	13	2.4	4.7
18	101	32	130	141	50	65	42	35	31	9.7	2.4	4.0
19	69	32	89	216	55	68	46	31	24	7.6	3.0	3.8
20	57	36	76	139	59	532	46	26	19	7.6	2.8	4.0
21	49	101	69	103	54	213	39	23	15	50	1.6	5.8
22	39	70	72	88	55	130	36	22	13	23	2.6	7.9
23	43	49	68	80	72	105	35	20	11	13	2.3	37
24	38	45	66	75	232	94	63	17	10	8.9	1.9	86
25	34	43	67	118	420	109	82	15	8.9	15	2.6	126
26	38	43	66	192	206	85	77	14	7.9	16	3.2	100
27	34	39	60	110	129	71	57	16	6.9	9.7	3.0	410
28	30	34	55	84	100	67	48	19	7.9	6.9	2.3	119
29	29	35	52	100	---	67	43	14	7.2	5.8	2.1	62
30	28	34	51	105	---	111	39	12	7.9	5.5	24	41
31	93	---	51	77	---	98	---	20	---	4.0	13	---
TOTAL	1690	1450	3160	3473	2287	2952	2363	1080	954.7	377.2	140.4	1121.4
MEAN	54.5	48.3	102	112	81.7	95.2	78.8	34.8	31.8	12.2	4.53	37.4
MAX	218	101	461	257	420	532	296	67	172	50	24	410
MIN	23	32	38	43	38	50	35	12	6.9	3.8	1.6	1.9
CFSM	1.91	1.69	3.57	3.92	2.86	3.33	2.76	1.22	1.11	.43	.16	1.31
IN.	2.20	1.89	4.11	4.52	2.97	3.84	3.07	1.40	1.24	.49	.18	1.46

CAL YR 1974 TOTAL 22196.65 MEAN 60.8 MAX 660 MIN .84 CFSM 2.13 IN 28.87
WTR YR 1975 TOTAL 21048.70 MEAN 57.7 MAX 532 MIN 1.6 CFSM 2.02 IN 27.38

01122000 NATCHAUG RIVER AT WILLIMANTIC, CONN.

LOCATION.--Lat 41°43'11", long 72°11'46", Windham County, on left bank at upstream side of bridge on U.S. Highway 6, 1 mi (2 km) northeast of Willimantic, 1.6 mi (2.6 km) upstream from mouth, and 3.7 mi (6.0 km) downstream from Mansfield Hollow Dam.

DRAINAGE AREA.--171 mi^2 (443 km^2).

PERIOD OF RECORD.--Discharge: October 1930 to current year.
Chemical analyses: September 1953, April 1954, October 1957 to September 1958, December 1963 to July 1964.

GAGE.--Water-stage recorder. Datum of gage is 150.31 ft (45.814 m) above mean sea level (levels by Corps of Engineers). Oct. 6, 1930, to June 6, 1974, water-stage recorder on right bank 500 ft (150 m) upstream at same datum. June 6, 1974, to Aug. 26, 1975, staff gage at present site and datum.

AVERAGE DISCHARGE (adjusted for storage).--45 years, 297 ft^3/s (8.411 m^3/s), 23.58 in/yr (599 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,450 ft^3/s (69.4 m^3/s) Mar. 21, gage height, 7.40 ft (2.256 m); minimum, 18 ft^3/s (0.51 m^3/s) Sept. 22, 23, gage height, 1.08 ft (0.329 m); minimum daily, 83 ft^3/s (2.35 m^3/s) Sept. 23.

Period of record: Maximum discharge, 32,000 ft^3/s (906 m^3/s) Sept. 21, 1938, gage height, 16.39 ft (4.996 m), from floodmarks, by computation of peak flow over dam 2 mi (3 km) upstream; minimum, about 0.3 ft^3/s (0.08 m^3/s) Aug. 6, 1937; minimum daily, 2.3 ft^3/s (0.065 m^3/s) Sept. 11, 12, 1943.

REMARKS.--Records excellent except those for period of no gage-height record Oct. 1 to Aug. 25, which are fair. City of Willimantic diverts an average of about 1.8 mgd (0.079 m^3/s) for municipal supply from reservoirs 2 mi (3 km) upstream. Operation of water wheels at this location causes diurnal fluctuation at low flow. Flow regulated since March 1952 by Mansfield Hollow Lake (see station 01121500). See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	500	220	320	430	550	580	230	160	80	60	32
2	700	400	350	320	370	500	510	250	150	50	55	31
3	550	360	1150	318	320	540	800	280	140	42	55	31
4	480	330	900	315	300	390	1600	300	140	43	50	33
5	400	360	750	315	300	350	1200	425	160	42	45	32
6	350	450	660	300	350	350	900	360	250	42	45	30
7	300	380	500	300	455	355	750	340	600	43	40	30
8	250	340	450	320	300	400	650	320	350	43	36	27
9	210	330	1300	305	270	350	570	260	240	42	36	27
10	300	320	1200	525	260	330	530	220	200	42	36	24
11	280	300	850	700	250	330	455	230	160	42	36	25
12	200	280	750	950	210	350	385	220	230	80	36	47
13	150	210	680	1300	200	430	380	400	550	100	36	82
14	130	180	550	1670	230	400	365	500	700	150	36	97
15	130	170	550	1390	250	380	355	400	550	300	36	84
16	210	310	540	700	300	350	340	330	500	200	35	203
17	700	310	800	580	320	380	325	340	270	105	30	290
18	790	310	800	500	330	370	305	280	245	89	29	274
19	600	320	700	900	350	370	300	230	220	75	28	338
20	400	350	640	800	350	1150	310	210	175	65	27	276
21	315	400	550	700	330	2200	290	200	150	50	25	137
22	250	450	450	500	350	1200	260	190	130	200	23	88
23	230	350	430	480	400	900	200	185	110	150	23	82
24	235	300	420	430	455	820	250	170	110	115	23	175
25	305	300	400	600	1600	750	500	140	100	104	23	639
26	300	300	390	900	2100	720	530	125	90	120	23	724
27	250	280	380	850	1500	550	450	150	82	100	23	1280
28	190	250	370	700	940	455	375	180	80	85	24	1340
29	190	240	350	600	---	445	330	150	110	80	24	443
30	185	230	340	600	---	490	290	130	130	75	35	270
31	425	---	330	525	---	600	---	150	---	70	32	---
TOTAL	11045	9610	18750	19713	13820	17755	15085	7895	7082	2824	1065	7191
MEAN	356	320	605	636	494	573	503	255	236	91.1	34.4	240
MAX	1040	500	1300	1670	2100	2200	1600	500	700	300	60	1340
MIN	130	170	220	300	200	330	200	125	80	42	23	24
(†)	-12.7	-14.6	+2.5	-1.5	-6.2	+9.9	+24.5	+7.8	-11.1	-1.5	0	-31.9
MEAN‡	343	305	607	634	488	583	528	263	225	89.6	34.4	208
CFSM‡	2.01	1.78	3.55	3.71	2.85	3.41	3.09	1.54	1.32	0.52	0.20	1.22
IN‡	2.32	1.99	4.09	4.28	2.97	3.93	3.45	1.78	1.47	0.60	0.23	1.36

CAL YR 1974 TOTAL 127057 MEAN 348 MAX 2360 MIN 19 MEAN‡ 348 CFSM‡ 2.04 IN‡ 27.60
WTR YR 1975 TOTAL 131835 MEAN 361 MAX 2200 MIN 23 MEAN‡ 358 CFSM‡ 2.09 IN‡ 28.47

†Change in contents in Mansfield Hollow Lake, equivalent in cubic feet per second; furnished by Corps of Engineers.

‡Adjusted for change in contents.

01122001 NATCHAUG RIVER AT WILLIMANTIC, CONN.

LOCATION.--Lat 41°43'10", long 72°11'46", Windham County, at bridge on U.S. Highway 6, at Willimantic.

DRAINAGE AREA.--171 mi^2 (443 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
15...	0945	133	7.0	21.0	12.0	10.8	100	8.5	0	470	70	30
NOV.												
18...	1100	311	6.9	10.0	5.5	12.9	102	8.4	0	250	40	10
DEC.												
02...	1045	379	6.7	7.5	3.5	13.2	99	5.2	0	140	50	10
JAN.												
07...	1200	100	6.9	3.0	2.0	14.2	102	8.8	0	110	40	10
FEB.												
03...	1115	240	6.6	.5	2.0	14.2	102	8.6	0	140	40	10
MAR.												
04...	1150	370	6.8	-1.5	2.0	13.9	100	7.7	0	120	30	0
APR.												
07...	1145	740	6.7	8.0	4.5	13.1	101	6.4	0	80	20	10
MAY												
06...	1045	365	6.8	17.0	13.0	10.8	102	5.4	10	140	50	0
JUNE												
09...	1120	180	7.1	16.0	18.5	9.3	99	6.5	0	350	40	10
JULY												
07...	1115	43	6.7	26.0	24.0	7.8	93	6.6	10	210	90	10
AUG.												
18...	1210	30	7.3	27.5	23.5	8.3	96	7.3	0	290	90	0
SEP.												
08...	1200	28	6.9	23.5	19.5	8.9	96	6.8	0	200	100	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
15...	4.2	1.3	14	0	11	8.3	7.5	.00	.22	.28	.36	.26
NOV.												
18...	4.1	1.4	10	0	8	8.0	7.4	.01	.18	.12	.15	.28
DEC.												
02...	3.9	1.3	10	0	8	7.3	6.3	.01	.27	.12	.15	.93
JAN.												
07...	5.0	1.8	11	0	9	8.9	12	.00	.38	.04	.05	.19
FEB.												
03...	4.4	1.6	9	0	7	9.0	6.5	.00	.38	.01	.01	.15
MAR.												
04...	3.9	1.3	10	0	8	6.7	7.0	.01	.33	.07	.09	.18
APR.												
07...	4.2	1.3	5	0	4	5.2	5.2	.01	.21	.03	.04	.12
MAY												
06...	4.5	1.2	9	0	7	6.2	6.5	.01	.20	.01	.01	.22
JUNE												
09...	5.0	1.3	17	0	14	4.8	6.5	.01	.20	.03	.04	.41
JULY												
07...	6.1	1.9	24	0	20	8.4	9.1	.01	.18	.01	.01	.42
AUG.												
18...	9.0	2.2	25	0	21	5.7	6.3	.00	.16	.03	.04	.39
SEP.												
08...	9.5	1.9	29	0	24	6.5	8.3	.01	.13	.00	.00	.47

01122001 NATCHAUG RIVER AT WILLIMANTIC, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
15...	.00	.48	2.1	.01	63	61	21.9	.08	16	4	71	30
NOV.												
18...	.16	.46	2.0	.02	55	49	41.1	.07	16	8	64	50
DEC.												
02...	.81	1.2	5.3	.26	153	44	45.0	.06	15	7	54	60
JAN.												
07...	.15	.57	2.5	.02	80	42	11.3	.06	20	11	88	20
FEB.												
03...	.14	.53	2.3	.03	49	37	24.0	.05	18	10	66	20
MAR.												
04...	.11	.51	2.3	.01	55	47	47.0	.06	15	7	61	20
APR.												
07...	.09	.33	1.5	.02	50	52	104	.07	16	12	54	12
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
06...	.21	.42	1.9	.02	53	44	43.4	.06	16	9	64	19
JUNE												
09...	.38	.61	2.7	.03	64	51	24.8	.07	18	4	69	34
JULY												
07...	.41	.60	2.7	.04	65	55	6.39	.07	23	3	81	22
AUG.												
18...	.36	.55	2.4	.01	70	68	5.51	.09	32	11	97	12
SEP.												
08...	.47	.60	2.7	.03	72	68	5.14	.09	32	8	95	1

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
15...	1	2.2	450	80	6	6.2	1	.0	3.5	2.0	--
NOV.											
18...	2	2.0	160	51	11	5.8	0	.0	1.7	.0	1
DEC.											
02...	20	3.2	4700	B1500	B1000	13	0	.0	3.0	.0	--
JAN.											
07...	6	2.2	430	30	65	4.2	0	.0	1.0	.5	--
FEB.											
03...	3	3.6	16	<1	4	4.0	0	.0	.7	.0	--
MAR.											
04...	1	2.5	24	--	4	6.0	0	.0	.0	.0	--
APR.											
07...	2	1.6	320	120	59	--	1	.0	.0	.0	--
28...	--	--	--	--	--	5.6	--	--	--	--	--
MAY											
06...	2	2.3	51	25	12	4.5	0	.0	.0	.0	--
JUNE											
09...	4	2.2	800	300	180	12	0	.0	.0	.0	--
JULY											
07...	2	7.7	1700	740	250	5.9	0	.0	.0	.0	--
AUG.											
18...	2	2.0	400	28	140	5.4	0	.1	.0	.0	--
SEP.											
08...	2	5.8	2600	1500	500	4.7	0	.0	.0	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01122001 NATCHAUG RIVER AT WILLIMANTIC, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (IG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)
OCT. 15...	.0	6	.0	.0	.0	.0	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 15...	0	0	.0	.0	.0	.0	.0	.0	.0	0	0	1

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 15...	100	1.2	15000	2	0	15	2	1400	4	47	<.0	5

01122500 SHETUCKET RIVER NEAR WILLIMANTIC, CONN.

LOCATION.--Lat 41°42'01", long 72°10'57", Windham County, on right bank at downstream side of Bingham Bridge on Plains Road, 500 ft (150 m) upstream from Penn. Central Co. railroad bridge, 500 ft (150 m) downstream from Potash Brook, 1.3 mi (2.1 km) downstream from confluence of Willimantic and Natchaug Rivers, 1.5 mi (2.4 km) southeast of Willimantic, and 17 mi (27 km) upstream from mouth.

DRAINAGE AREA.--402 mi^2 (1,041 km^2).

PERIOD OF RECORD.--Discharge: April 1904 to December 1905, October 1919 to September 1921, September 1928 to current year. Published as "at South Windham" October 1919 to September 1921, September 1928 to September 1933. Monthly discharge only for some periods, published in WSP 1301.
Chemical analyses: October 1956 to September 1957, June 1968 to September 1974.
Water temperatures: October 1956 to September 1957.

GAGE.--Water-stage recorder since Dec. 5, 1933. Datum of gage is 131.40 ft (40.051 m) above mean sea level (levels by Corps of Engineers). Apr. 4, 1904, to Dec. 31, 1905, nonrecording gage at present site and about the same datum. October 1919 to Sept. 30, 1921, and Sept. 1, 1928 to Sept. 30, 1933, water-stage recorder at site 1.5 mi (2.4 km) downstream at different datum.

AVERAGE DISCHARGE (adjusted for storage).--50 years, 699 ft^3/s (19.80 m^3/s), 23.63 in/yr (600 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,520 ft^3/s (156 m^3/s) Sept. 27, gage height, 8.81 ft (2.685 m); minimum, 70 ft^3/s (1.98 m^3/s) Aug. 29, 30, gage height, 1.68 ft (0.512 m); minimum daily, 73 ft^3/s (2.07 m^3/s) Aug. 29.

Period of record: Maximum discharge, 52,200 ft^3/s (1,480 m^3) Sept. 21, 1938, gage height, 27.6 ft (8.41 m), from floodmarks, from rating curve extended above 11,000 ft^3/s (312 m^3/s) on basis of computation of peak flow over Scotland and Baltic Dams, 5 and 9 mi (8 and 14 km) downstream, respectively, adjusted for flow from intervening area; minimum, 15 ft^3/s (0.42 m^3/s) Aug. 29, 1949, gage height, 1.34 ft (0.408 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Aug. 22, Oct. 24, 1949.
Water temperatures: Maximum, 27°C July 22, 23, Aug. 1, 1957; mimimum, freezing point on many days in Jan. 1957.

REMARKS.--Records good. Flow regulated by mills and flood detention reservoirs on Willimantic River, on Natchaug River by pumping for municipal supply of city of Willimantic, and by Mansfield Hollow Lake (see station 01121500). See REVISIONS summary paragraph in WSP 1901. Records of iron, specific conductance, and pH of daily samples for 1956-57 available in district office at Hartford, Conn.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2120	1180	474	700	1060	1310	1320	557	334	231	140	170
2	954	935	1330	700	847	1130	1130	605	319	176	129	138
3	927	819	2590	650	739	1160	1500	685	294	143	111	124
4	646	779	1920	650	678	997	3450	733	295	143	101	126
5	518	834	1470	650	682	844	2760	1010	352	132	105	119
6	498	941	1260	623	759	786	2070	891	987	122	109	114
7	469	870	982	721	934	788	1700	855	1260	138	132	108
8	395	800	1010	768	774	849	1460	783	804	147	175	103
9	366	748	3190	1040	677	822	1280	627	592	128	226	113
10	463	701	2780	1800	628	769	1170	509	472	136	195	114
11	444	674	2070	1850	520	771	1030	526	336	138	163	105
12	350	630	1740	2180	470	847	896	514	433	192	170	153
13	318	594	1480	2380	428	1060	876	771	1530	282	153	297
14	286	526	1350	3310	470	1050	851	1320	1670	466	133	247
15	301	478	1230	2640	600	992	825	997	1340	629	116	200
16	745	671	1190	1830	708	886	799	918	1160	445	107	282
17	1860	650	1800	1260	706	918	764	903	648	343	98	382
18	1750	652	1780	1090	728	897	726	746	616	282	94	365
19	1420	753	1490	1970	747	892	718	586	549	234	90	430
20	1090	802	1380	1950	829	3630	732	484	450	198	90	376
21	728	930	1300	1870	824	4550	692	464	323	386	84	237
22	555	955	1040	1650	810	2740	620	435	293	588	84	209
23	543	813	846	1170	934	2040	509	411	261	425	85	278
24	551	748	800	1090	1660	1720	653	376	250	319	81	706
25	647	747	800	1260	3870	1650	1050	311	234	299	76	1810
26	679	746	750	2160	3770	1510	1180	270	214	325	77	1770
27	583	689	750	2070	2180	1230	1000	294	201	253	84	3920
28	470	641	750	1670	1800	999	859	365	202	213	79	4100
29	467	576	700	1350	---	974	783	302	254	197	74	1800
30	456	503	700	1460	---	1150	669	267	290	170	151	1080
31	848	---	700	1270	---	1390	---	307	---	153	228	---
TOTAL	22447	22385	41652	45782	29832	41351	34072	18822	16963	8033	3740	19976
MEAN	724	746	1344	1477	1065	1334	1136	607	565	259	121	666
MAX	2120	1180	3190	3310	3870	4550	3450	1320	1670	629	228	4100
MIN	286	478	474	623	428	769	509	267	201	122	74	103
(†)	-12.7	-14.6	+2.5	-1.5	-6.2	+9.9	+24.5	+7.8	-11.1	-1.5	0	-31.9
MEAN‡	711	735	1346	1476	1059	1344	1160	615	554	258	121	634
CFSM‡	1.77	1.83	3.35	3.67	2.63	3.34	2.89	1.53	1.38	0.64	0.30	1.58
IN‡	2.04	2.04	3.86	4.23	2.74	3.85	3.22	1.76	1.54	0.74	0.35	1.76

CAL YR 1974 TOTAL 315592 MEAN 865 MAX 5050 MIN 53 MEAN‡ 865 CFSM‡ 2.15 IN‡ 29.22
WTR YR 1975 TOTAL 305055 MEAN 836 MAX 4550 MIN 74 MEAN‡ 833 CFSM‡ 2.07 IN‡ 28.13

†Change in contents in Mansfield Hollow Lake, equivalent in cubic feet per second, furnished by Corps of Engineers.

‡Adjusted for change in contents.

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CONN.

LOCATION.--Lat 41°40'56", long 72°09'59", Windham County, at bridge on State Highway 203, at South Windham.

DRAINAGE AREA.--408 mi^2 (1,057 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
29...	1330	435	7.2	20.5	8.5	12.4	105	8.8	10	200	30	20
NOV.												
18...	1250	602	7.1	12.5	5.0	13.6	106	8.6	10	210	30	10
DEC.												
02...	1235	1170	6.9	10.0	3.0	13.8	102	6.9	10	140	140	10
JAN.												
07...	1315	278	6.9	3.0	1.5	14.4	103	8.6	0	90	30	10
FEB.												
03...	1255	647	6.7	2.5	2.0	14.6	104	8.6	0	140	40	10
MAR.												
04...	1340	930	6.9	.5	2.0	14.4	104	7.9	0	100	20	0
APR.												
07...	1320	1710	6.6	10.0	5.0	13.2	103	6.8	0	80	20	0
MAY												
06...	1230	939	6.8	20.0	12.0	11.8	109	6.1	10	140	40	0
JUNE												
09...	1310	576	7.0	18.0	16.5	9.8	100	7.3	0	340	40	10
JULY												
07...	1300	143	7.3	27.0	24.0	10.0	118	6.5	10	200	30	0
AUG.												
18...	1330	95	7.5	27.0	25.0	10.8	128	6.0	10	250	10	10
SEP.												
08...	1330	112	7.1	26.0	20.0	--	--	5.5	0	160	30	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
29...	5.6	1.8	10	0	8	15	13	.01	.38	.24	.31	.44
NOV.												
18...	4.8	1.3	11	0	9	9.6	8.1	.01	.31	.24	.31	.38
DEC.												
02...	5.0	1.6	12	0	10	11	9.4	.02	.47	.22	.28	.43
JAN.												
07...	5.5	1.6	12	0	10	13	13	.00	.40	.14	.18	.22
FEB.												
03...	5.5	1.6	10	0	8	11	8.8	.00	.52	.13	.17	.34
MAR.												
04...	4.4	1.3	14	0	11	9.5	8.8	.01	.36	.15	.19	.25
APR.												
07...	5.6	1.2	6	0	5	6.6	6.5	.01	.26	.06	.08	.12
MAY												
06...	5.0	1.1	11	0	9	7.8	8.8	.01	.26	.06	.08	.40
JUNE												
09...	5.5	1.3	16	0	13	7.1	7.5	.01	.30	.13	.17	.47
JULY												
07...	8.0	1.9	22	0	18	12	13	.00	.54	.05	.06	.55
AUG.												
18...	8.9	2.0	21	0	17	9.6	11	.00	.62	.03	.04	.41
SEP.												
08...	9.0	1.2	19	0	16	10	11	.01	.50	.12	.15	.56

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
29...	.20	.82	3.6	.13	80	63	74.0	.09	21	13	98	20
NOV.												
18...	.14	.69	3.1	.08	59	69	112	.09	17	8	77	30
DEC.												
02...	.21	.90	4.0	.16	83	53	167	.07	19	9	77	20
JAN.												
07...	.08	.62	2.7	.07	75	51	38.3	.07	20	10	100	3
FEB.												
03...	.21	.86	3.8	.10	63	47	82.1	.06	20	12	83	10
MAR.												
04...	.10	.61	2.7	.04	61	49	123	.07	16	5	73	20
APR.												
07...	.06	.38	1.7	.03	119	64	295	.09	19	14	69	11
MAY												
06...	.34	.66	2.9	.08	59	52	132	.07	17	8	76	19
JUNE												
09...	.34	.77	3.4	.08	62	55	85.5	.07	19	6	80	31
JULY												
07...	.50	1.1	4.8	.14	84	75	29.0	.10	28	10	101	17
AUG.												
18...	.38	1.0	4.6	.16	79	74	19.0	.10	30	13	110	11
SEP.												
08...	.44	1.1	4.7	.16	99	78	23.6	.11	27	12	108	2

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
29...	1	1.0	150000	7900	900	6.8	1	.0	.0	.0	--
NOV.											
18...	2	1.4	62000	2900	460	5.6	1	.0	2.0	.0	0
DEC.											
02...	4	2.4	25000	4400	880	5.9	1	.0	6.5	.0	--
JAN.											
07...	2	2.4	14000	2500	420	4.4	0	.1	2.5	.5	--
FEB.											
03...	4	3.2	26000	660	340	3.9	0	.0	.0	.0	--
MAR.											
04...	2	2.8	B75	B7	<1	5.3	0	.0	.0	.0	--
APR.											
07...	2	2.4	B3500	340	96	6.0	0	.0	.0	.0	--
MAY											
06...	2	2.8	400	140	33	4.8	0	.0	.0	.0	--
JUNE											
09...	3	2.6	1200	250	160	7.0	0	.1	.0	.0	--
JULY											
07...	1	1.8	860	170	80	5.4	0	.1	.0	.0	--
AUG.											
18...	1	1.1	9000	280	52	5.6	0	.0	.0	.0	--
SEP.											
08...	1	2.4	3000	110	84	5.2	0	.1	.0	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)
OCT. 29...	.0	34	1.3	.0	1.4	3.8	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 29...	0	0	.0	.0	.0	.0	.0	.0	.0	7	1	3

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 29...	100	.8	26200	1	0	7	4	1800	13	78	.0	13

01123000 LITTLE RIVER NEAR HANOVER, CONN.

LOCATION.--Lat 41°40'18", long 72°03'10", Windham County, on left bank 800 ft (240 m) upstream from bridge on Hannance Road, 0.7 mi (1.1 km) downstream from Peck Brook, 2.3 mi (3.7 km) northeast of Hanover, and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--30.4 mi^2 (78.7 km^2).

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 221.19 ft (67.419 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 55.8 ft^3/s (1.580 m^3/s), 24.93 in/yr (633 mm/yr).

EXTREMES.--Current year: Maximum discharge, 460 ft^3/s (13.0 m^3/s) Mar. 20, gage height, 4.00 ft (1.219 m); minimum, 7.3 ft^3/s (0.21 m^3/s), Sept. 11, 12, gage height, 1.15 ft (0.351 m).

Period of record: Maximum discharge, 1,710 ft^3/s (48.4 m^3/s) Apr. 3, 1970, gage height, 7.02 ft (2.140 m), from rating curve extended above 820 ft^3/s (23.2 m^3/s); minimum, 3.2 ft^3/s (0.091 m^3/s) Aug. 16, 1959, gage height, 1.00 ft (0.305 m), caused by a minor and temporary regulation from an unknown source upstream.

PEAK DISCHARGE.--(BASE, 400 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
03-20	1800	4.00	460
04-03	0930	3.91	438

REMARKS.--Records good. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	46	29	43	69	93	78	51	37	25	12	13
2	35	36	224	43	63	86	130	56	35	20	11	10
3	29	34	155	43	59	76	366	61	30	17	9.9	9.0
4	26	35	83	43	55	67	181	60	30	16	14	8.6
5	21	42	62	43	50	62	127	81	30	15	9.9	8.2
6	18	41	54	42	54	60	105	67	87	15	9.4	9.0
7	16	35	51	65	53	59	93	61	72	14	13	9.0
8	14	32	123	80	51	55	82	58	49	15	17	8.2
9	13	29	206	123	50	55	75	53	41	14	23	7.8
10	12	27	110	155	49	52	69	55	37	16	16	7.8
11	12	25	79	136	48	53	65	52	31	21	13	7.5
12	12	27	68	191	47	58	62	44	44	40	12	8.6
13	12	42	62	178	46	83	60	76	217	48	11	19
14	11	35	58	225	45	74	57	81	134	45	10	14
15	12	31	53	127	44	72	56	62	83	43	9.4	11
16	104	28	65	92	43	73	51	74	62	37	9.0	9.9
17	114	27	162	78	45	83	51	75	57	27	9.9	9.4
18	58	26	109	106	48	83	66	59	54	28	11	9.0
19	43	25	79	216	55	80	103	51	47	19	9.9	8.6
20	37	38	69	149	66	371	103	45	37	17	9.0	8.6
21	30	78	64	105	64	236	69	41	31	44	8.6	15
22	27	55	63	87	64	133	50	37	28	36	8.2	20
23	25	41	60	79	85	112	40	37	25	24	7.8	41
24	23	37	57	73	190	99	50	41	23	19	7.8	73
25	24	36	53	111	321	110	70	53	22	23	8.6	113
26	30	36	50	217	212	92	90	39	21	25	8.6	78
27	31	32	47	126	128	77	75	37	19	18	8.6	156
28	23	29	45	91	102	73	65	45	20	15	7.8	113
29	22	29	44	94	---	69	60	34	34	14	7.8	61
30	29	28	43	105	---	103	55	29	37	12	18	48
31	68	---	43	80	---	96	---	30	---	12	20	---
TOTAL	978	1062	2470	3346	2206	2895	2604	1645	1474	734	351.2	914.2
MEAN	31.5	35.4	79.7	108	78.8	93.4	86.8	53.1	49.1	23.7	11.3	30.5
MAX	114	78	224	225	321	371	366	81	217	48	23	156
MIN	11	25	29	42	43	52	40	29	19	12	7.8	7.5
CFSM	1.04	1.16	2.62	3.55	2.59	3.07	2.86	1.75	1.62	.78	.37	1.00
IN.	1.20	1.30	3.02	4.09	2.70	3.54	3.19	2.01	1.80	.90	.43	1.12

CAL YR 1974 TOTAL 21704.8 MEAN 59.5 MAX 664 MIN 7.0 CFSM 1.96 IN 26.56
WTR YR 1975 TOTAL 20679.4 MEAN 56.7 MAX 371 MIN 7.5 CFSM 1.87 IN 25.31

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.

LOCATION.--Lat 42°01'40", long 71°57'22", Worcester County, on right bank, 50 ft (15 m) upstream from bridge on State Highway 131, 0.2 mi (0.3 km) upstream from Massachusetts-Connecticut State line, 0.4 mi (0.6 km) upstream from gaging station at Quinebaug, Conn., and 2.0 mi (3.2 km) southwest of Dudley, Mass.

DRAINAGE AREA.--156 mi^2 (404 km^2) at gage at Quinebaug, Conn.

PERIOD OF RECORD.--Chemical analyses: October 1968 to current year (no winter record in water years 1973, 1974, and 1975).
Water temperatures: October 1968 to current year (no winter record in water years 1973, 1974, and 1975).
Prior to October 1971, published as "at Quinebaug, Conn."

EXTREMES.--Current year: Dissolved oxygen: Maximum not determined; minimum recorded, 0.7 mg/l July 12.
Water temperatures: Maximum recorded, 34.0°C, Aug. 2; minimum, probably freezing point on many days during winter period.

Period of record: Specific conductance (1968-72): Maximum recorded, 393 micromhos Sept. 24, 1970; minimum, 56 micromhos Feb. 20, 1972.
pH (1968-72): Maximum, 9.0 July 13, 16, 1971; minimum, 4.9 July 18, 1970.
Dissolved oxygen: Maximum recorded, 19.6 mg/l Feb. 12, 1972; minimum, 0.4 mg/l Aug. 28, 1970, Aug. 3, 1974.
Water temperatures: Maximum recorded, 34.0°C Aug. 2, 1975; minimum, freezing point on many days during winter periods.

REMARKS.--Figures of daily discharge for gaging station at Quinebaug, Conn. (station 01124000) are used for this site.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) . WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	122	116	119	---	---	---	---	---	---	---	---	---
10	124	119	122	---	---	---	---	---	---	---	---	---
11	123	116	120	---	---	---	---	---	---	---	---	---
12	124	121	122	---	---	---	---	---	---	---	---	---
13	122	109	115	---	---	---	---	---	---	---	---	---
14	112	104	106	---	---	---	---	---	---	---	---	---
15	105	99	101	---	---	---	---	---	---	---	---	---
16	102	95	98	---	---	---	---	---	---	---	---	---
17	106	102	105	---	---	---	---	---	---	---	---	---
18	110	104	107	---	---	---	---	---	---	---	---	---
19	112	104	110	---	---	---	---	---	---	---	---	---
20	113	111	112	---	---	---	---	---	---	---	---	---
21	113	109	111	---	---	---	---	---	---	---	---	---
22	113	110	112	---	---	---	---	---	---	---	---	---
23	113	109	111	---	---	---	---	---	---	---	---	---
24	113	108	111	---	---	---	---	---	---	---	---	---
25	115	109	112	---	---	---	---	---	---	---	---	---
26	118	111	114	---	---	---	---	---	---	---	---	---
27	119	116	117	---	---	---	---	---	---	---	---	---
28	119	115	117	---	---	---	---	---	---	---	---	---
29	117	111	115	---	---	---	---	---	---	---	---	---
30	116	111	114	---	---	---	---	---	---	---	---	---
31	112	102	107	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM at 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	136	115	124
2	---	---	---	---	---	---	---	---	---	142	136	138
3	---	---	---	---	---	---	---	---	---	137	130	133
4	---	---	---	---	---	---	---	---	---	130	118	124
5	---	---	---	---	---	---	---	---	---	119	114	117
6	---	---	---	---	---	---	---	---	---	120	116	118
7	---	---	---	---	---	---	---	---	---	119	112	116
8	---	---	---	---	---	---	---	---	---	116	112	114
9	---	---	---	---	---	---	---	---	---	117	115	116
10	---	---	---	---	---	---	---	---	---	120	115	118
11	---	---	---	---	---	---	---	---	---	117	114	115
12	---	---	---	---	---	---	---	---	---	117	115	116
13	---	---	---	---	---	---	---	---	---	117	102	109
14	---	---	---	---	---	---	---	---	---	113	106	109
15	---	---	---	---	---	---	---	---	---	111	101	109
16	---	---	---	---	---	---	---	---	---	109	96	101
17	---	---	---	---	---	---	---	---	---	98	94	96
18	---	---	---	---	---	---	---	---	---	102	96	98
19	---	---	---	---	---	---	---	---	---	121	102	111
20	---	---	---	---	---	---	---	---	---	160	111	127
21	---	---	---	---	---	---	---	---	---	113	109	112
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	117	113	115	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	130	122	126	155	142	150	153	144	148
2	---	---	---	140	130	134	152	142	147	194	151	162
3	---	---	---	141	131	137	152	142	147	202	156	181
4	---	---	---	148	136	141	168	149	152	178	164	172
5	---	---	---	149	138	144	173	161	166	185	173	178
6	123	109	115	145	134	141	169	162	164	189	168	175
7	123	116	119	165	140	151	169	160	165	174	167	170
8	124	120	122	171	150	160	170	145	156	175	168	171
9	118	112	114	166	155	161	147	136	141	183	167	172
10	120	112	115	174	162	166	162	145	151	191	184	186
11	124	119	121	181	169	174	157	136	141	228	184	210
12	123	110	115	193	175	184	141	135	137	221	181	201
13	117	112	115	194	159	177	154	139	145	193	183	187
14	121	116	118	165	148	155	162	145	156	183	163	172
15	119	112	116	167	148	157	159	148	153	172	164	167
16	116	99	110	156	124	138	178	162	173	174	170	172
17	127	115	123	140	117	126	178	174	176	179	174	177
18	123	114	119	122	119	121	176	173	175	183	173	177
19	127	117	122	128	122	124	177	173	174	182	167	172
20	130	123	126	131	125	127	178	175	176	171	167	169
21	129	122	126	130	114	123	176	174	175	175	168	170
22	127	123	124	140	121	132	176	166	172	179	172	175
23	134	122	126	141	133	138	178	169	173	178	146	165
24	139	131	134	134	125	129	179	171	175	168	130	141
25	142	137	140	127	114	121	188	177	180	155	131	145
26	142	116	128	128	117	123	189	186	188	144	135	142
27	133	123	126	131	126	128	---	---	---	124	106	116
28	133	126	129	139	129	133	193	188	189	106	77	90
29	134	127	130	143	138	140	196	184	191	76	67	72
30	129	123	127	155	141	147	188	175	184	86	67	78
31	---	---	---	158	147	154	186	145	168	---	---	---
MONTH	142	99	122	194	114	142	196	135	165	228	67	160
YEAR	228	67	139									

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--continued

PH (UNITS) . WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	6.6	6.3	6.4	---	---	---	---	---	---	---	---	---
12	6.5	6.1	6.3	---	---	---	---	---	---	---	---	---
13	6.5	6.1	6.3	---	---	---	---	---	---	---	---	---
14	6.4	6.2	6.3	---	---	---	---	---	---	---	---	---
15	6.5	6.1	6.3	---	---	---	---	---	---	---	---	---
16	6.3	6.2	6.3	---	---	---	---	---	---	---	---	---
17	6.4	6.0	6.3	---	---	---	---	---	---	---	---	---
18	6.4	6.3	6.4	---	---	---	---	---	---	---	---	---
19	6.4	5.9	6.2	---	---	---	---	---	---	---	---	---
20	6.2	6.1	6.1	---	---	---	---	---	---	---	---	---
21	6.2	6.1	6.1	---	---	---	---	---	---	---	---	---
22	6.2	5.9	6.1	---	---	---	---	---	---	---	---	---
23	6.1	5.9	6.0	---	---	---	---	---	---	---	---	---
24	6.2	5.9	6.1	---	---	---	---	---	---	---	---	---
25	6.1	6.0	6.1	---	---	---	---	---	---	---	---	---
26	6.2	6.0	6.1	---	---	---	---	---	---	---	---	---
27	6.2	6.1	6.1	---	---	---	---	---	---	---	---	---
28	6.2	6.1	6.1	---	---	---	---	---	---	---	---	---
29	6.2	5.9	6.1	---	---	---	---	---	---	---	---	---
30	6.0	5.5	5.9	---	---	---	---	---	---	---	---	---
31	5.9	5.8	5.9	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	7.1	6.7	6.9
2	---	---	---	---	---	---	---	---	---	6.8	6.7	6.7
3	---	---	---	---	---	---	---	---	---	6.9	6.7	6.8
4	---	---	---	---	---	---	---	---	---	6.8	6.6	6.7
5	---	---	---	---	---	---	---	---	---	6.8	6.5	6.6
6	---	---	---	---	---	---	---	---	---	6.8	6.5	6.6
7	---	---	---	---	---	---	---	---	---	6.9	6.5	6.7
8	---	---	---	---	---	---	---	---	---	6.8	6.5	6.6
9	---	---	---	---	---	---	---	---	---	7.0	6.5	6.8
10	---	---	---	---	---	---	---	---	---	7.1	6.6	6.8
11	---	---	---	---	---	---	---	---	---	7.2	6.7	6.9
12	---	---	---	---	---	---	---	---	---	7.1	6.7	6.8
13	---	---	---	---	---	---	---	---	---	6.8	6.6	6.7
14	---	---	---	---	---	---	---	---	---	6.8	6.6	6.7
15	---	---	---	---	---	---	---	---	---	6.7	6.6	6.7
16	---	---	---	---	---	---	---	---	---	6.7	6.6	6.6
17	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
18	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
19	---	---	---	---	---	---	---	---	---	6.5	6.4	6.5
20	---	---	---	---	---	---	---	---	---	6.8	6.5	6.5
21	---	---	---	---	---	---	---	---	---	7.0	6.5	6.7
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	7.2	6.9	7.1	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--continued

PH (UNITS) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.7	6.3	6.5	7.1	6.1	6.6	7.0	6.5	6.7
2	---	---	---	6.6	6.3	6.4	6.5	6.0	6.1	7.2	6.6	6.8
3	---	---	---	7.1	6.1	6.5	6.1	5.9	6.1	7.2	6.6	6.8
4	---	---	---	6.7	6.1	6.3	6.1	6.0	6.0	6.9	6.1	6.6
5	---	---	---	6.7	6.0	6.2	6.2	6.0	6.1	6.7	6.0	6.3
6	6.8	6.7	6.8	7.0	6.0	6.3	6.6	6.2	6.4	7.6	6.0	6.5
7	6.8	6.4	6.6	7.8	5.8	6.7	6.4	6.3	6.4	8.3	6.2	6.9
8	6.6	6.6	6.6	7.6	6.3	6.7	6.4	6.1	6.2	7.6	6.2	6.7
9	6.9	6.6	6.8	7.8	6.3	6.8	6.3	6.0	6.2	7.4	6.1	6.6
10	7.1	6.6	6.8	7.6	6.5	6.8	6.3	5.8	6.2	---	---	---
11	7.1	6.8	6.9	7.3	6.5	6.8	6.3	6.1	6.2	---	---	---
12	7.0	6.6	6.7	6.7	6.6	6.6	6.3	6.1	6.2	---	---	---
13	6.9	6.6	6.7	6.7	6.6	6.7	6.4	6.2	6.4	---	---	---
14	7.0	6.7	6.9	6.9	6.7	6.8	6.5	5.5	6.2	---	---	---
15	7.1	6.9	7.0	6.9	6.7	6.8	6.2	5.3	5.7	---	---	---
16	7.3	6.9	7.1	7.0	6.8	6.9	5.4	5.2	5.3	---	---	---
17	7.2	7.0	7.1	6.9	6.5	6.8	5.4	5.3	5.3	---	---	---
18	7.2	6.8	7.0	6.9	6.4	6.6	5.5	5.3	5.4	---	---	---
19	6.9	6.7	6.8	7.0	6.4	6.6	5.7	5.5	5.6	6.8	6.5	6.6
20	6.9	6.7	6.8	7.0	6.4	6.6	5.9	5.6	5.8	6.9	6.5	6.7
21	6.8	6.7	6.7	6.8	6.4	6.6	6.0	5.7	5.9	7.0	6.6	6.7
22	6.9	6.7	6.8	6.5	6.2	6.4	6.6	5.7	6.1	7.2	6.6	6.8
23	6.9	6.7	6.8	6.2	5.9	6.2	6.9	5.8	6.2	6.8	6.6	6.6
24	6.8	6.7	6.7	6.3	5.7	6.1	6.5	6.1	6.3	6.7	6.6	6.6
25	6.9	6.7	6.8	6.0	5.8	5.9	6.9	6.3	6.6	6.7	6.4	6.6
26	7.1	6.7	6.9	6.4	6.0	6.1	6.6	6.5	6.6	6.7	6.2	6.5
27	6.8	6.6	6.7	6.4	6.1	6.3	---	---	---	6.4	6.3	6.4
28	6.7	6.5	6.6	6.6	6.1	6.3	6.5	6.1	6.3	6.4	6.3	6.4
29	6.6	6.4	6.5	6.5	6.1	6.3	6.9	6.1	6.3	6.3	6.1	6.3
30	6.8	6.4	6.6	6.5	6.1	6.3	6.8	6.3	6.5	6.4	6.2	6.3
31	---	---	---	6.7	6.1	6.4	6.9	6.4	6.6	---	---	---
MONTH	7.3	6.4	6.8	7.8	5.7	6.5	7.1	5.2	6.1	8.3	---	---
YEAR	8.3	5.2	6.5									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	9.1	8.4	8.7	---	---	---	---	---	---	---	---	---
10	9.2	8.5	8.7	---	---	---	---	---	---	---	---	---
11	9.4	8.4	8.7	---	---	---	---	---	---	---	---	---
12	9.3	8.8	9.0	---	---	---	---	---	---	---	---	---
13	9.7	8.8	9.1	---	---	---	---	---	---	---	---	---
14	10.1	8.8	9.3	---	---	---	---	---	---	---	---	---
15	9.4	8.3	8.8	---	---	---	---	---	---	---	---	---
16	9.4	8.3	8.9	---	---	---	---	---	---	---	---	---
17	9.7	9.2	9.5	---	---	---	---	---	---	---	---	---
18	9.9	9.3	9.7	---	---	---	---	---	---	---	---	---
19	10.5	10.0	10.2	---	---	---	---	---	---	---	---	---
20	10.8	10.2	10.5	---	---	---	---	---	---	---	---	---
21	11.4	10.8	11.0	---	---	---	---	---	---	---	---	---
22	11.5	10.4	11.0	---	---	---	---	---	---	---	---	---
23	10.9	10.1	10.5	---	---	---	---	---	---	---	---	---
24	10.8	10.1	10.4	---	---	---	---	---	---	---	---	---
25	10.9	10.1	10.4	---	---	---	---	---	---	---	---	---
26	10.6	10.1	10.3	---	---	---	---	---	---	---	---	---
27	10.7	10.1	10.4	---	---	---	---	---	---	---	---	---
28	11.2	10.4	10.8	---	---	---	---	---	---	---	---	---
29	11.0	9.8	10.5	---	---	---	---	---	---	---	---	---
30	10.4	9.3	9.9	---	---	---	---	---	---	---	---	---
31	9.5	8.9	9.2	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--continued

DISSOLVED OXYGEN (DO) , IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	8.3	3.7	5.6
2	---	---	---	---	---	---	---	---	---	9.7	4.3	7.3
3	---	---	---	---	---	---	---	---	---	10.3	9.1	9.8
4	---	---	---	---	---	---	---	---	---	10.1	8.7	9.5
5	---	---	---	---	---	---	---	---	---	10.0	9.2	9.5
6	---	---	---	---	---	---	---	---	---	10.1	8.8	9.5
7	---	---	---	---	---	---	---	---	---	9.6	8.5	9.2
8	---	---	---	---	---	---	---	---	---	9.4	8.0	8.9
9	---	---	---	---	---	---	---	---	---	9.2	8.2	8.6
10	---	---	---	---	---	---	---	---	---	9.6	8.6	9.0
11	---	---	---	---	---	---	---	---	---	9.4	8.2	8.9
12	---	---	---	---	---	---	---	---	---	9.2	7.7	8.5
13	---	---	---	---	---	---	---	---	---	8.7	7.7	8.2
14	---	---	---	---	---	---	---	---	---	8.9	7.7	8.3
15	---	---	---	---	---	---	---	---	---	8.8	7.8	8.3
16	---	---	---	---	---	---	---	---	---	8.7	8.0	8.3
17	---	---	---	---	---	---	---	---	---	9.3	8.3	8.8
18	---	---	---	---	---	---	---	---	---	9.7	8.5	9.1
19	---	---	---	---	---	---	---	---	---	9.3	7.4	8.6
20	---	---	---	---	---	---	---	---	---	7.7	5.4	7.0
21	---	---	---	---	---	---	---	---	---	8.3	6.6	7.0
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	11.0	3.9	6.2	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.7	6.3	8.0	---	---	---	8.2	6.3	7.1
2	---	---	---	9.6	3.9	7.1	---	---	---	6.3	4.4	5.4
3	---	---	---	10.2	4.0	7.0	---	---	---	---	---	---
4	---	---	---	9.4	4.6	6.8	---	---	---	---	---	---
5	---	---	---	9.6	2.4	6.2	---	---	---	---	---	---
6	8.5	7.8	8.2	10.9	5.5	7.4	---	---	---	---	---	---
7	8.5	5.1	7.4	7.8	4.0	5.2	---	---	---	---	---	---
8	---	---	---	7.2	2.1	4.1	---	---	---	---	---	---
9	---	---	---	10.9	2.5	6.7	---	---	---	---	---	---
10	---	---	---	9.6	2.5	5.8	---	---	---	7.2	4.6	6.3
11	---	---	---	9.8	1.6	5.7	---	---	---	8.7	4.4	6.2
12	---	---	---	3.5	0.7	1.7	---	---	---	5.5	4.5	4.8
13	---	---	---	5.8	0.9	2.6	---	---	---	---	---	---
14	---	---	---	8.2	3.5	6.7	7.6	1.1	4.1	---	---	---
15	---	---	---	7.1	3.8	4.8	7.6	2.3	4.7	---	---	---
16	---	---	---	---	---	---	6.8	3.6	4.7	---	---	---
17	---	---	---	---	---	---	4.0	1.5	2.6	---	---	---
18	---	---	---	---	---	---	3.5	1.2	2.1	---	---	---
19	7.2	3.1	6.0	---	---	---	2.8	1.4	1.9	5.7	4.1	5.2
20	5.3	0.9	3.0	---	---	---	4.4	1.8	3.0	9.5	5.4	7.3
21	3.5	1.2	2.2	---	---	---	7.5	3.5	5.6	9.5	6.1	7.4
22	4.1	2.2	3.3	---	---	---	7.3	4.5	5.6	10.4	5.8	7.7
23	3.3	1.5	2.7	---	---	---	9.4	5.5	7.3	---	---	---
24	2.2	1.6	1.8	8.1	6.1	7.3	8.7	5.4	6.8	---	---	---
25	2.5	2.0	2.1	8.6	5.3	6.8	8.5	4.7	6.5	---	---	---
26	8.0	2.4	5.3	8.6	5.6	7.1	4.3	3.9	4.1	---	---	---
27	8.3	4.6	6.4	6.6	4.9	5.5	---	---	---	---	---	---
28	5.0	0.9	2.5	5.3	3.9	4.4	6.2	3.6	4.9	---	---	---
29	5.7	1.1	3.9	---	---	---	7.6	3.4	5.3	---	---	---
30	9.5	5.5	7.6	---	---	---	7.3	4.3	5.8	---	---	---
31	---	---	---	---	---	---	7.5	5.5	6.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	11.5	0.7	6.9									

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--continued

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	13.0	12.5	13.0	---	---	---	---	---	---	---	---	---
10	13.0	12.0	12.5	---	---	---	---	---	---	---	---	---
11	12.5	12.0	12.0	---	---	---	---	---	---	---	---	---
12	12.0	11.0	11.5	---	---	---	---	---	---	---	---	---
13	11.5	11.0	11.5	---	---	---	---	---	---	---	---	---
14	11.5	10.5	11.0	---	---	---	---	---	---	---	---	---
15	11.5	11.0	11.5	---	---	---	---	---	---	---	---	---
16	11.5	10.0	10.5	---	---	---	---	---	---	---	---	---
17	10.0	9.5	10.0	---	---	---	---	---	---	---	---	---
18	9.5	9.0	9.5	---	---	---	---	---	---	---	---	---
19	8.5	8.0	8.0	---	---	---	---	---	---	---	---	---
20	8.0	7.5	8.0	---	---	---	---	---	---	---	---	---
21	8.0	7.5	8.0	---	---	---	---	---	---	---	---	---
22	8.5	7.5	8.0	---	---	---	---	---	---	---	---	---
23	9.0	8.0	8.5	---	---	---	---	---	---	---	---	---
24	9.0	8.5	9.0	---	---	---	---	---	---	---	---	---
25	9.0	8.5	8.5	---	---	---	---	---	---	---	---	---
26	9.5	9.0	9.0	---	---	---	---	---	---	---	---	---
27	9.5	9.0	9.5	---	---	---	---	---	---	---	---	---
28	9.5	9.0	9.0	---	---	---	---	---	---	---	---	---
29	10.5	9.0	10.0	---	---	---	---	---	---	---	---	---
30	11.0	10.5	11.0	---	---	---	---	---	---	---	---	---
31	12.0	11.5	11.5	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	12.0	11.5	11.5
6	---	---	---	---	---	---	---	---	---	14.5	10.5	12.5
7	---	---	---	---	---	---	---	---	---	16.5	13.0	15.0
8	---	---	---	---	---	---	---	---	---	17.0	15.0	16.0
9	---	---	---	---	---	---	---	---	---	17.5	15.5	17.0
10	---	---	---	---	---	---	---	---	---	18.0	16.0	17.0
11	---	---	---	---	---	---	---	---	---	19.5	16.5	18.0
12	---	---	---	---	---	---	---	---	---	19.0	17.5	18.0
13	---	---	---	---	---	---	---	---	---	19.5	17.5	18.0
14	---	---	---	---	---	---	---	---	---	21.0	17.5	19.5
15	---	---	---	---	---	---	---	---	---	21.0	18.0	19.5
16	---	---	---	---	---	---	---	---	---	20.5	18.0	19.5
17	---	---	---	---	---	---	---	---	---	20.5	17.5	19.5
18	---	---	---	---	---	---	---	---	---	20.5	18.0	19.5
19	---	---	---	---	---	---	---	---	---	23.0	19.0	21.0
20	---	---	---	---	---	---	---	---	---	25.0	21.5	23.5
21	---	---	---	---	---	---	---	---	---	25.0	21.5	24.0
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	30.0	13.5	19.5	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	25.0	16.0	20.5	32.5	26.0	29.0	23.0	16.0	19.0
2	---	---	---	26.5	16.5	21.5	34.0	26.5	30.0	23.0	18.5	20.0
3	---	---	---	29.0	21.0	25.0	33.5	27.5	30.0	21.5	18.0	19.5
4	---	---	---	29.5	22.0	25.5	27.0	26.0	26.5	23.0	16.5	19.5
5	---	---	---	29.5	21.0	25.5	31.5	25.0	27.5	24.0	17.0	20.5
6	17.0	15.5	16.0	30.5	22.5	26.0	27.5	24.0	26.0	21.5	18.5	20.0
7	18.5	15.5	17.0	30.0	22.5	26.0	24.5	20.0	22.0	22.0	17.0	19.5
8	18.0	16.5	17.0	29.5	23.0	26.0	22.0	20.5	21.0	23.0	17.5	20.0
9	18.0	15.5	17.0	30.0	23.5	26.5	26.0	21.0	23.5	22.5	17.0	20.0
10	20.0	16.0	18.0	30.0	24.0	26.5	27.5	19.5	23.5	22.5	14.5	18.5
11	22.5	18.5	20.5	29.0	24.0	26.5	28.5	22.5	25.5	22.5	15.0	19.0
12	20.5	18.0	19.5	25.0	22.5	23.5	30.5	24.0	27.0	20.5	17.0	19.0
13	18.0	16.5	17.5	25.0	22.5	23.5	30.5	24.5	27.5	18.0	14.0	16.0
14	21.0	17.5	18.5	25.0	23.5	24.5	30.0	25.0	27.0	---	---	---
15	22.5	18.5	20.5	26.5	23.5	25.0	29.0	23.5	26.0	---	---	---
16	21.0	19.0	20.0	27.5	24.0	25.5	26.0	23.5	24.5	---	---	---
17	22.5	20.0	21.0	29.0	23.5	26.5	23.5	21.0	22.5	18.5	14.0	17.0
18	25.0	21.5	23.5	30.0	26.5	28.0	26.5	20.5	23.0	18.0	13.0	15.5
19	26.5	20.5	24.0	30.0	26.5	27.5	23.0	17.0	20.0	19.0	15.5	17.5
20	26.0	22.5	24.5	28.0	25.0	26.5	23.0	15.5	19.5	20.5	18.0	19.0
21	26.0	20.0	23.0	28.0	25.0	26.0	25.0	15.5	20.0	22.0	19.5	20.5
22	27.5	20.0	24.0	27.5	25.0	26.0	26.5	20.5	23.5	22.0	17.5	20.0
23	29.5	21.0	25.5	28.0	24.0	26.0	25.0	17.5	21.0	19.5	18.0	19.0
24	31.0	23.0	27.5	28.5	25.5	27.0	20.0	18.0	19.0	18.0	16.0	17.0
25	30.0	24.0	26.5	27.0	25.0	26.5	23.0	19.5	21.0	15.5	14.0	14.5
26	28.5	22.0	25.0	27.0	23.5	25.0	---	---	---	15.5	14.0	15.0
27	25.0	20.0	22.5	27.5	22.5	24.5	---	---	---	17.0	15.5	16.5
28	24.5	20.5	22.5	28.0	23.0	25.5	26.5	20.0	24.0	16.5	15.0	16.0
29	26.0	21.0	23.5	29.0	23.5	26.0	26.0	19.0	22.5	17.5	13.5	15.5
30	26.0	19.5	22.5	30.5	23.0	26.5	22.5	19.0	21.0	17.5	15.0	16.0
31	---	---	---	31.5	23.0	27.5	23.0	18.0	20.0	---	---	---
MONTH	31.0	15.5	21.5	31.5	16.0	25.5	34.0	15.5	24.0	24.0	13.0	18.0
YEAR	34.0	7.5	20.0									

01124000 QUINEBAUG RIVER AT QUINEBAUG, CONN.

LOCATION.--Lat 42°01'20", long 71°57'22", Windham County, on right bank at Quinebaug, 500 ft (152 m) upstream from bridge on State Highway 197, 0.2 mi (0.3 km) downstream from Massachusetts-Connecticut State line, 7.8 mi (12.6 km) upstream from French River, and at mile 46 (74 km).

DRAINAGE AREA.--156 mi^2 (404 km^2).

PERIOD OF RECORD.--Discharge: September 1931 to current year.
Chemical analyses: September 1952, March 1953, October 1959 to September 1960, January 1962 to November 1963, January to April 1969.
Water temperatures: October 1959 to September 1960.

GAGE.--Water-stage recorder. Datum of gage is 341.52 ft (104.095 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage).--44 years, 289 ft^3/s (5.352 m^3/s), 23.26 in/yr (591 mm/yr).

EXTREMES.--Maximum discharge, 1,850 ft^3/s (52.4 m^3/s) Mar. 20, gage height, 5.26 ft (1.603 m); minimum, 15 ft^3/s (0.42 m^3/s) Aug. 23, 24, gage height, 2.08 ft (0.634 m).

Period of record: Maximum discharge, 49,300 ft^3/s (1,400 m^3/s) Aug. 19, 1955, gage height, 18.96 ft (5.779 m), from floodmarks, from rating curve extended above 5,100 ft^3/s (144 m^3/s) on basis of slope-area measurement of peak flow; minimum, about 1 ft^3/s (0.028 m^3/s) Sept. 9, 1943, July 12, 1949, Sept. 17, 18, 1950, July 9, 1951, Sept. 4 and Oct. 29, 1956; minimum daily, about 1 ft^3/s (0.028 m^3/s) Sept. 4, 1956; minimum gage height, 1.74 ft (0.530 m) Aug. 20, 1940.
Specific conductance: Maximum daily, 157 micromhos Sept. 23, 1960; minimum daily, 49 micromhos Apr. 2, 1960.
Water temperatures: Maximum, 28.0°C Aug. 23, 29, 1960; minimum, freezing point on many days during December 1959 to March 1960.

REMARKS.--Records good. Flow regulated by East Brimfield and Westville Lakes, (see p. 94), and by smaller reservoirs upstream. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	657	297	181	285	432	609	441	204	93	38	36	40
2	525	278	530	278	379	524	406	204	98	35	33	40
3	416	245	643	257	338	457	773	211	90	33	29	38
4	317	241	538	247	303	389	1130	215	168	32	29	33
5	292	276	438	230	278	357	982	234	143	29	27	28
6	242	335	376	211	286	332	848	226	272	28	28	25
7	198	313	338	224	275	321	702	211	281	25	48	24
8	170	294	460	224	265	342	606	193	254	28	82	23
9	146	257	991	274	255	315	513	176	215	24	110	27
10	134	237	881	315	245	289	467	168	172	27	107	23
11	126	225	784	392	240	278	416	153	137	25	98	21
12	138	213	677	691	235	270	384	161	150	50	80	32
13	175	264	576	875	230	316	354	238	276	73	65	43
14	192	266	511	973	225	329	326	295	290	107	52	41
15	192	255	454	836	220	332	309	313	263	150	41	41
16	437	230	417	641	217	318	295	313	222	143	35	40
17	635	208	604	553	216	323	272	272	193	121	32	35
18	548	198	593	553	224	320	259	230	172	87	31	31
19	466	190	536	691	239	336	259	197	137	73	27	29
20	388	197	482	668	255	1340	259	176	116	63	24	31
21	337	331	434	606	252	1270	234	161	93	146	22	32
22	306	359	406	527	245	1080	215	153	80	150	21	36
23	292	319	376	462	266	831	204	133	69	146	17	95
24	271	287	355	415	593	661	234	119	63	124	19	204
25	263	272	355	462	1130	665	272	104	58	116	21	461
26	268	259	341	658	1060	671	295	93	50	98	20	507
27	255	230	316	599	867	565	272	87	46	78	21	1010
28	236	215	297	531	693	475	246	85	45	67	20	1110
29	214	206	280	507	---	430	222	80	45	56	20	1060
30	195	194	275	562	---	475	207	75	41	48	52	1010
31	294	---	270	492	---	482	---	87	---	41	43	---
TOTAL	9325	7691	14715	15239	10463	15702	12402	5567	4332	2261	1290	6170
MEAN	301	256	475	492	374	507	413	180	144	72.9	41.6	206
MAX	657	359	991	973	1130	1340	1130	313	290	150	110	1110
MIN	126	190	181	211	216	270	204	75	41	24	17	21
(†)	-6.5	-0.2	+0.8	+2.1	+2.8	-2.5	-3.0	-1.5	-2.0	+0.6	0	+21.3
MEAN‡	304	256	476	494	377	504	410	178	142	73.5	41.6	227
CFSM‡	1.95	1.64	3.05	3.17	2.42	3.23	2.63	1.14	0.91	0.47	0.27	1.46
IN‡	2.25	1.83	3.52	3.66	2.52	3.72	2.93	1.31	1.02	0.54	0.31	1.63

CAL YR 1974 TOTAL 108519.2 MEAN 297 MAX 1240 MIN 6.8 MEAN‡ 295 CFSM‡ 1.89 IN‡ 25.79
WTR YR 1975 TOTAL 105157.0 MEAN 288 MAX 1340 MIN 17 MEAN‡ 289 CFSM‡ 1.85 IN‡ 25.24

†Change in contents in East Brimfield and Westville Lakes, equivalent in cubic feet per second; furnished by Corps of Engineers.

‡Adjusted for change in contents.

01124151 QUINEBAUG RIVER AT WEST THOMPSON, CONN.

LOCATION.--Lat 41°56'36", long 71°54'03", Windham County, on left bank near downstream end of tailrace, upstream from concrete V-notch weir at flood-control dam at West Thompson.

DRAINAGE AREA.--172 mi^2 (445 km^2).

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 291.00 ft (88.700 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage and diversion).--9 years, 307 ft^3/s (8.694 m^3/s), 24.24 in/yr (616 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,770 ft^3/s (50.1 m^3/s) Mar. 21, gage height, 6.01 ft (1.832 m); minimum daily, 7.5 ft^3/s (0.21 m^3/s) Sept. 2.

Period of record: Maximum discharge, 2,070 ft^3/s (58.6 m^3/s) Mar. 22, 1974, gage height, 6.37 ft (1.942 m); minimum daily, 7.5 ft^3/s (0.21 m^3/s) Sept. 2, 1975. No flow part of many days 1970, 1972 (regulation).

Flood of Aug. 19, 1955, reached a discharge of about 48,200 ft^3/s (1,360 m^3/s), by comparison of peak flows at Quinebaug and Putnam, gage height, 20.1 ft (6.13 m) from floodmarks.

REMARKS.--Records good. Flow regulated by East Brimfield, Westville, and West Thompson Lakes (see p. 94), and by smaller reservoirs upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	875	307	203	317	517	807	530	246	115	41	47	10
2	763	354	358	338	456	731	500	242	121	34	42	7.0
3	528	298	627	301	371	586	600	249	120	31	38	7.6
4	403	274	665	293	313	508	1500	251	150	32	35	7.6
5	334	281	595	278	313	484	1600	270	179	32	34	7.7
6	299	345	460	252	317	452	1050	274	294	31	30	16
7	248	358	403	249	317	429	900	263	355	29	40	20
8	209	332	403	255	293	437	700	244	299	27	64	21
9	180	307	864	278	293	418	600	223	282	27	104	20
10	160	284	1170	361	260	389	530	207	207	27	117	20
11	149	262	807	396	260	368	500	194	155	26	117	21
12	142	237	712	703	250	351	450	184	156	33	108	34
13	155	252	712	801	250	385	420	232	257	54	92	51
14	180	293	595	1190	260	414	385	334	339	88	76	35
15	192	287	538	1190	260	418	372	360	330	122	61	33
16	295	274	492	766	260	403	352	370	295	144	51	35
17	762	240	613	609	243	403	334	353	254	140	45	35
18	626	225	688	546	243	399	323	308	226	119	41	36
19	527	211	636	746	243	385	310	268	187	94	38	36
20	466	206	568	781	243	886	311	229	155	78	35	51
21	393	287	512	736	243	1610	295	203	129	109	33	53
22	246	392	472	641	243	1470	274	193	109	149	21	48
23	386	374	448	559	243	1030	253	179	94	153	30	64
24	320	335	421	492	243	751	260	161	82	143	28	248
25	290	310	410	496	959	675	311	142	74	141	30	420
26	290	284	403	688	1710	640	342	128	66	121	32	569
27	286	252	371	746	1210	560	335	119	58	102	35	878
28	269	240	354	622	886	500	311	119	53	86	35	1150
29	240	220	335	581	---	520	285	112	50	72	35	1030
30	222	211	320	632	---	560	261	105	46	61	31	900
31	265	---	313	581	---	600	---	106	---	53	16	---
TOTAL	10700	8532	16468	17424	11699	18569	15194	6868	5237	2399	1541	5863.9
MEAN	345	284	531	562	418	599	506	222	175	77.4	49.7	195
MAX	875	392	1170	1190	1710	1610	1600	370	355	153	117	1150
MIN	142	206	203	249	243	351	253	105	46	26	16	7.0
(†)	-18.1	-3.0	+2.8	+4.9	+2.4	-2.1	-7.4	-4.6	-3.7	+0.6	+1.2	+51.8
MEAN‡	327	281	534	567	420	597	499	217	171	78.0	50.9	247
CFSM‡	1.90	1.63	3.10	3.30	2.44	3.47	2.90	1.26	0.99	0.45	0.30	1.44
IN‡	2.19	1.82	3.57	3.80	2.54	4.00	3.24	1.45	1.10	0.52	0.35	1.61

CAL YR 1974	TOTAL	123035.0	MEAN 337	MAX 1880	MIN 17	MEAN‡ 335	CFSM‡ 1.95	IN‡ 26.43
WTR YR 1975	TOTAL	120494.9	MEAN 330	MAX 1710	MIN 7.0	MEAN‡ 332	CFSM‡ 1.93	IN‡ 26.19

†Change in contents in East Brimfield, Westfield, and West Thompson Lakes, equivalent in cubic feet per second; furnished by Corps of Engineers.

‡Adjusted for change in contents.

01125150 FRENCH RIVER AT MECHANICSVILLE, CONN.

LOCATION.--Lat 41°56'51", long 71°53'23", Windham County, at bridge on West Thompson Road, 0.5 mi (0.8 km) northeast of Mechanicsville.

DRAINAGE AREA.--107 mi^2 (277 km^2).

PERIOD OF RECORD.--Chemical analyses: March to November 1962, October and November 1973, July 1974 to current year. Water temperatures: March to November 1962.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
21...	1135	172	6.7	6.0	7.0	11.1	91	5.0	0	210	20	30
NOV.												
20...	0910	131	6.9	10.5	5.5	10.4	82	5.2	10	180	30	30
DEC.												
09...	0920	235	6.8	6.0	4.0	12.3	93	5.9	0	120	30	20
JAN.												
13...	1020	550	6.9	1.0	2.5	13.5	98	6.3	0	280	50	20
FEB.												
10...	1040	80	6.8	-5.0	.0	13.6	94	6.3	0	140	50	10
MAR.												
05...	1020	134	6.8	1.0	2.0	12.6	91	6.3	10	120	40	10
APR.												
14...	1100	68	6.7	11.0	8.5	11.6	98	4.3	0	140	40	10
MAY												
13...	1000	106	7.1	17.5	16.0	7.6	77	3.3	0	270	50	10
JUNE												
17...	1050	131	6.7	21.5	20.0	7.1	77	4.7	10	370	40	10
JULY												
28...	1515	28	6.9	29.5	25.5	4.2	51	5.7	10	410	100	0
AUG.												
20...	1410	13	7.1	24.5	22.0	5.2	59	6.8	0	620	60	20
SEP.												
10...	1335	22	7.1	20.5	18.5	--	--	6.1	10	430	50	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
21...	6.7	1.6	15	0	12	14	24	.01	.23	.41	.53	.75
NOV.												
20...	7.2	3.0	16	0	13	16	35	.01	.35	.51	.66	.92
DEC.												
09...	6.0	1.8	14	0	11	12	23	.03	.29	.36	.46	.66
JAN.												
13...	6.5	1.3	14	0	11	11	16	.01	.32	.34	.44	.52
FEB.												
10...	8.3	1.0	15	0	12	11	16	.02	.47	.27	.35	.76
MAR.												
05...	5.8	1.1	19	0	16	11	18	.01	.44	.16	.21	.56
APR.												
14...	5.8	.9	24	0	20	9.4	14	.01	.28	.18	.23	.41
MAY												
13...	11	1.2	35	0	29	12	18	.01	.63	.44	.57	1.6
JUNE												
17...	6.6	1.1	24	0	20	12	19	.01	.74	.32	.41	.92
JULY												
28...	8.5	1.4	103	0	84	12	23	.01	1.7	.18	.23	1.2
AUG.												
20...	11	1.7	110	0	90	34	24	.00	.30	1.6	2.1	3.5
SEP.												
10...	10	1.1	109	0	89	22	23	.02	.62	1.5	1.9	2.5

01125150 FRENCH RIVER AT MECHANICSVILLE.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
21...	.34	.98	4.3	.10	87	78	36.2	.11	23	11	112	40
NOV.												
20...	.41	1.3	5.6	.18	85	116	41.0	.16	30	17	117	30
DEC.												
09...	.30	.95	4.2	.10	74	81	51.4	.11	22	11	93	30
JAN.												
13...	.18	.84	3.7	.10	80	82	122	.11	22	10	107	20
FEB.												
10...	.49	1.2	5.4	.13	100	75	16.2	.10	25	13	109	30
MAR.												
05...	.40	1.0	4.4	.12	85	70	25.3	.10	19	3	119	20
APR.												
14...	.23	.69	3.1	.12	76	69	12.7	.09	18	0	114	14
MAY												
13...	1.2	2.2	9.9	.34	110	95	27.2	.13	32	4	146	20
JUNE												
17...	.60	1.7	7.3	.23	125	90	31.8	.12	21	1	134	35
JULY												
28...	1.0	2.9	13	.88	193	180	13.6	.24	27	0	275	32
AUG.												
20...	1.9	3.8	17	.83	216	205	7.20	.28	34	0	325	25
SEP.												
10...	1.0	3.1	14	.98	219	202	12.0	.27	30	0	310	10

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
21...	2	4.8	65000	B19000	900	9.9	0	.1	.0	.0	--
NOV.											
20...	4	3.2	65000	4200	700	7.3	0	.1	3.0	.5	7
DEC.											
09...	2	3.6	160000	35000	3700	7.2	0	.1	2.5	.5	--
JAN.											
13...	2	2.8	52000	2500	710	6.8	0	.1	1.5	.0	--
FEB.											
10...	2	3.8	30000	5000	2300	6.7	1	.1	.0	.0	--
MAR.											
05...	3	4.8	40000	10000	3500	7.9	0	.1	.0	.0	--
APR.											
14...	1	7.7	4200	1000	480	8.1	1	.1	.0	.0	--
MAY											
13...	3	4.4	38000	1000	130	7.3	0	.1	28	.0	--
JUNE											
17...	3	7.7	4000	400	200	9.1	<1	.1	7.3	.0	--
JULY											
28...	6	21	--	140	88	13	0	.2	.5	.0	--
AUG.											
20...	6	14	200	8	12	12	0	.1	24	.0	--
SEP.											
10...	6	14	600	68	53	15	0	.3	7.5	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01125150 FRENCH RIVER AT MECHANICSVILLE--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 21...	.0	2	1.8	2.2	2.2	2.6	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 21...	0	0	.0	.0	.0	.0	.0	.0	.0	19	3	12

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 21...	100	12	67200	13	0	62	47	5300	39	130	.1	78

01125200 QUINEBAUG RIVER AT PUTNAM, CONN.

LOCATION.--Lat 41°55'07", long 71°54'38", Windham County, at bridge on Bridge Street, at Putnam.

DRAINAGE AREA.--289 mi^2 (749 km^2).

PERIOD OF RECORD.--Chemical analyses: January to June 1962, July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
21...	1415	625	7.0	7.5	7.0	12.5	102	5.8	0	210	20	20
NOV.												
20...	1125	332	7.1	12.0	5.5	13.0	102	6.4	0	240	40	30
DEC.												
09...	1115	1390	6.8	5.5	4.0	13.9	105	6.9	0	650	40	20
JAN.												
13...	1235	1350	6.7	1.0	3.0	13.7	101	5.9	0	210	60	10
FEB.												
10...	1235	350	6.7	-4.5	1.0	14.6	103	7.2	0	140	60	20
MAR.												
05...	1135	650	6.8	1.5	2.0	14.0	101	6.7	0	140	40	10
APR.												
14...	1205	554	7.0	10.5	9.0	13.4	116	5.2	0	180	60	0
MAY												
13...	1135	325	7.4	20.0	18.0	11.6	122	3.2	0	360	60	0
JUNE												
17...	1200	400	7.1	22.5	20.5	8.4	92	5.0	10	390	50	10
JULY												
28...	1400	115	7.9	30.0	26.0	10.2	124	4.6	0	440	40	0
AUG.												
20...	1300	46	8.1	23.5	24.0	9.6	113	5.1	0	200	60	0
SEP.												
10...	1230	41	7.4	19.5	20.0	--	--	4.7	10	220	130	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
21...	6.5	1.6	12	0	10	12	15	.00	.16	.38	.49	.48
NOV.												
20...	6.6	1.8	14	0	11	13	20	.01	.30	.33	.43	.66
DEC.												
09...	5.0	1.6	13	0	11	12	16	.02	.25	.30	.39	.45
JAN.												
13...	5.1	1.3	8	0	7	8.0	16	.00	.25	.15	.19	.35
FEB.												
10...	5.6	1.5	13	0	11	12	17	.02	.40	.19	.24	.43
MAR.												
05...	5.5	1.3	14	0	11	10	17	.01	.24	.20	.26	.41
APR.												
14...	5.8	1.3	14	0	11	9.9	16	.01	.26	.16	.21	.47
MAY												
13...	6.8	1.4	23	0	19	12	19	.01	.33	.21	.27	.89
JUNE												
17...	6.7	1.4	17	0	14	11	18	.01	.49	.17	.22	.70
JULY												
28...	8.0	1.7	36	0	30	9.9	21	.01	.51	.01	.01	.91
AUG.												
20...	10	2.0	51	0	42	18	23	.00	.39	.12	.15	1.3
SEP.												
10...	11	2.1	57	0	47	22	28	.02	.57	.31	.40	2.3

01125200 QUINEBAUG RIVER AT PUTNAM, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
21...	.10	.64	2.8	.09	88	73	123	.10	23	13	105	30
NOV.												
20...	.33	.96	4.3	.13	80	95	85.2	.13	24	12	112	40
DEC.												
09...	.15	.70	3.1	.08	71	70	263	.10	19	8	94	40
JAN.												
13...	.20	.60	2.7	.07	71	65	237	.09	18	12	103	20
FEB.												
10...	.24	.83	3.7	.11	74	124	117	.17	20	10	115	20
MAR.												
05...	.21	.65	2.9	.07	86	76	133	.10	19	8	106	20
APR.												
14...	.31	.73	3.2	.09	78	69	103	.09	20	8	113	8
MAY												
13...	.68	1.2	5.4	.22	98	73	64.1	.10	23	4	123	17
JUNE												
17...	.53	1.2	5.3	.20	97	71	76.7	.10	23	9	118	37
JULY												
28...	.90	1.4	6.3	.33	102	98	30.4	.13	27	0	167	25
AUG.												
20...	1.2	1.7	7.5	.33	138	129	16.0	.18	33	0	205	10
SEP.												
10...	2.0	2.9	13	.48	167	160	17.7	.22	36	0	240	3

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
21...	2	1.9	16000	84000	190	13	0	.1	2.0	.0	--
NOV.											
20...	4	1.8	18000	1500	300	10	0	.1	2.0	.0	0
DEC.											
09...	2	3.3	40000	6000	380	6.0	0	.0	3.5	.5	--
JAN.											
13...	2	2.6	14000	5400	400	4.9	0	.1	3.0	1.3	--
FEB.											
10...	2	4.2	12000	880	400	4.7	0	.1	.0	.0	--
MAR.											
05...	2	3.6	7600	750	260	7.9	2	.1	.0	.0	--
APR.											
14...	2	2.2	320	160	83	5.2	0	.1	.0	.0	--
MAY											
13...	5	1.5	9100	220	71	6.8	0	.1	32	.0	--
JUNE											
17...	4	2.2	1300	100	41	8.1	<1	.1	7.0	.0	--
JULY											
28...	9	.7	280	230	80	9.1	0	.1	5.0	.0	--
AUG.											
20...	8	.6	320	110	80	11	1	.1	29	.0	--
SEP.											
10...	9	3.6	920	340	120	12	0	.1	12	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01125200 QUINEBAUG RIVER AT PUTNAM, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 21...	.0	2	3.3	.0	4.8	.9	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 21...	0	0	.0	.0	.0	.0	.0	.0	.0	20	1	2

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 21...	100	3.1	24700	3	1	12	9	1600	31	82	.1	38

01125720 QUINEBAUG RIVER AT POMFRET LANDING, CONN.

LOCATION.--Lat 41°50'57", long 71°55'17", Windham County, at bridge on State Highway 101, 0.7 mi (1.1 km) northwest of Rogers.

DRAINAGE AREA.--376 mi^2 (974 km^2).

PERIOD OF RECORD.--Chemical analyses: April to November 1962, October, November, 1963, July 1974 to current year. Water temperatures: April to November 1962.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
16...	0915	404	6.9	10.0	12.0	9.4	87	5.4	10	280	60	20
NOV.												
20...	1340	437	7.0	11.0	6.0	12.4	99	6.5	10	230	50	30
DEC.												
09...	1305	1820	6.8	4.5	4.0	13.1	100	6.9	10	200	30	20
JAN.												
13...	1410	1760	6.7	2.0	3.0	13.5	100	6.8	0	300	60	20
FEB.												
10...	1455	460	6.7	-3.0	.0	14.2	98	7.6	0	190	80	20
MAR.												
05...	1320	850	6.8	3.5	2.0	13.5	97	6.8	0	110	50	10
APR.												
14...	1400	724	6.8	16.0	9.0	12.4	108	5.3	0	190	40	10
MAY												
13...	1345	424	7.3	22.0	16.5	10.2	104	3.5	0	290	60	0
JUNE												
17...	1355	523	7.0	23.5	20.5	8.8	97	5.5	10	390	40	10
JULY												
28...	1130	150	7.1	25.5	23.0	8.7	100	4.3	0	310	90	0
AUG.												
20...	1100	60	7.2	22.0	21.0	7.3	81	4.9	0	180	100	10
SEP.												
10...	1045	54	7.2	17.0	17.0	--	--	4.9	10	370	150	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
16...	6.5	1.4	20	0	16	14	16	.00	.45	.59	.76	.72
NOV.												
20...	7.9	1.7	14	0	11	13	14	.01	.39	.25	.32	.38
DEC.												
09...	5.0	1.5	14	0	11	11	13	.02	.35	.33	.43	.59
JAN.												
13...	6.5	1.9	10	0	8	9.5	16	.00	.41	.22	.28	.50
FEB.												
10...	8.7	1.4	14	0	11	12	17	.02	.58	.22	.28	.42
MAR.												
05...	5.6	1.3	16	0	13	10	15	.01	.45	.15	.19	.33
APR.												
14...	6.4	1.4	14	0	11	9.9	15	.01	.35	.16	.21	.32
MAY												
13...	8.4	1.5	19	0	16	12	14	.01	.42	.01	.01	.63
JUNE												
17...	6.7	1.6	20	0	16	11	18	.01	.55	.17	.22	.73
JULY												
28...	8.3	1.8	33	0	27	10	20	.01	.41	.00	.00	1.2
AUG.												
20...	12	2.2	51	0	42	18	23	.00	.60	.03	.04	1.1
SEP.												
10...	100	20	49	0	40	18	23	.01	.88	.10	.13	.91

01125700 QUINEBAUG RIVER AT POMFRET LANDING, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
16...	.13	1.2	5.2	.18	93	82	89.4	.11	22	6	123	30
NOV.												
20...	.13	.77	3.4	.12	80	89	105	.12	27	15	108	40
DEC.												
09...	.26	.94	4.2	.08	70	64	315	.09	19	7	85	20
JAN.												
13...	.28	.91	4.0	.08	73	73	347	.10	24	16	101	30
FEB.												
10...	.20	1.0	4.4	.11	76	77	95.6	.10	28	16	120	20
MAR.												
05...	.18	.78	3.5	.06	90	77	177	.10	19	6	102	20
APR.												
14...	.16	.67	3.0	.09	76	61	119	.08	22	10	111	9
MAY												
13...	.62	1.1	4.6	.16	82	77	88.2	.10	27	12	114	15
JUNE												
17...	.56	1.3	5.7	.23	99	80	113	.11	23	7	123	48
JULY												
28...	1.2	1.6	7.1	.29	101	106	42.9	.14	28	1	155	21
AUG.												
20...	1.1	1.7	7.5	.33	147	139	22.5	.19	39	0	210	17
SEP.												
10...	.81	1.8	7.9	.62	143	126	18.4	.17	330	290	200	7

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
16...	3	4.0	12000	600	54	9.2	0	.1	7.0	1.0	--
NOV.											
20...	4	2.2	5700	1000	170	8.7	0	.1	3.0	.0	0
DEC.											
09...	2	3.6	17000	4000	2700	6.9	0	.0	3.0	.0	--
JAN.											
13...	2	3.2	7800	1400	420	5.8	0	.0	3.5	.5	--
FEB.											
10...	2	4.5	3100	190	340	4.6	0	.1	.0	.0	--
MAR.											
05...	2	4.1	6000	220	85	5.3	0	.0	.0	.0	--
APR.											
14...	1	3.6	B160	62	28	4.1	0	.0	.0	.0	--
MAY											
13...	3	1.5	42000	3900	440	5.0	0	.0	30	.0	--
JUNE											
17...	7	3.2	3300	600	80	9.4	0	.0	10	.0	--
JULY											
28...	10	4.2	2000	160	190	9.6	0	.0	21	.0	--
AUG.											
20...	5	5.1	700	100	56	8.4	0	.1	20	.0	--
SEP.											
10...	5	4.9	2400	B550	51	10	0	.1	9.5	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01125700 QUINEBAUG RIVER AT POMFRET LANDING, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 16...	.0	0	1.6	.9	1.6	1.1	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 16...	0	0	.0	.0	.0	.0	.0	.0	.0	13	1	3

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 16...	100	4.6	33000	3	1	31	11	2700	24	190	.1	39

01126600 BLACKWELL BROOK NEAR BROOKLYN, CONN.

LOCATION.--Lat 41°45'55", long 71°57'25", Windham County, on left bank 75 ft (23 m) upstream from bridge on State Highway 169, 1.5 mi (2.4 km) south of Brooklyn.

DRAINAGE AREA.--17.0 mi^2 (44.0 km^2).

PERIOD OF RECORD.--Discharge: Occasional low-flow measurements, water years 1961-63, and annual maximum, water years 1962-63. October 1963 to current year.
Chemical analyses: September 1961, March to August 1962.

GAGE.--Water-stage recorder. Datum of gage is 137.03 ft (41.767 m) above mean sea level. Sept. 8, 1961 to Oct. 28, 1963, crest-stage gage at bridge 75 ft (23 m) downstream at same datum.

AVERAGE DISCHARGE.--12 years, 29.6 ft^3/s (0.838 m^3/s), 23.64 in/yr (600 mm/yr).

EXTREMES.--Current year: Maximum discharge, 374 ft^3/s (10.6 m^3/s) Apr. 4, gage height, 4.72 ft (1.439 m); minimum, 2.2 ft^3/s (0.062 m^3/s) Aug. 28-30, gage height, 0.67 ft (0.204 m).

Period of record: Maximum discharge, 1,100 ft^3/s (31.2 m^3/s) Apr. 2, 1970, gage height, 7.76 ft (2.365 m); minimum, 0.40 ft^3/s (0.011 m^3/s) Sept. 8, 1964, Aug. 17, 1970; minimum gage height, 0.63 ft (0.192 m) Sept. 8, 1964.

PEAK DISCHARGE.--(BASE, 250 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
04-04	0200	4.72	374

REMARKS.--Records excellent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	57	31	37	40	48	42	24	11	6.2	5.0	5.9
2	19	44	84	37	38	45	37	28	10	5.2	4.9	5.1
3	15	37	130	33	37	40	122	31	8.4	4.9	4.0	2.9
4	12	37	57	31	36	36	244	30	8.8	4.5	3.8	1.9
5	11	40	43	30	28	33	89	38	9.1	4.4	3.8	1.6
6	9.5	44	39	32	31	32	62	34	42	4.3	3.8	1.6
7	9.1	39	36	46	31	32	52	28	34	4.7	5.4	2.2
8	11	36	46	46	28	38	47	25	19	4.8	9.1	2.2
9	14	33	131	51	28	31	43	23	15	4.4	11	1.9
10	24	32	70	63	26	30	40	24	12	4.7	6.7	1.7
11	21	31	50	67	25	29	36	22	9.5	4.7	5.4	1.5
12	16	31	44	115	22	33	34	19	19	9.5	4.3	2.3
13	15	37	41	77	26	44	32	39	97	19	3.8	6.5
14	13	40	39	72	25	39	31	50	59	18	3.3	5.4
15	14	36	36	64	24	36	29	39	40	19	3.0	3.6
16	37	33	37	51	24	38	28	42	31	14	3.0	2.7
17	92	31	72	44	25	42	26	41	29	11	3.1	2.4
18	62	30	64	63	26	42	25	32	25	14	2.9	2.4
19	46	30	49	138	32	40	25	28	19	8.4	3.0	2.4
20	40	33	43	85	39	207	28	23	14	6.9	2.9	2.6
21	36	55	40	59	37	138	24	20	11	24	2.7	3.6
22	32	55	40	51	36	65	21	18	9.5	18	2.7	5.1
23	32	43	39	45	44	54	21	16	8.1	8.8	2.4	17
24	31	38	37	42	101	49	31	19	7.2	6.4	2.3	42
25	31	37	37	65	209	53	48	17	6.7	7.5	2.4	58
26	33	37	38	143	129	47	51	12	6.2	9.5	2.4	43
27	32	33	35	72	65	40	43	11	5.7	8.8	2.4	74
28	31	33	32	51	53	37	35	12	5.9	5.2	2.3	58
29	30	33	32	52	---	36	30	9.1	6.2	4.4	2.2	34
30	30	32	31	56	---	47	27	7.8	7.2	4.1	5.2	24
31	50	---	32	46	---	51	---	8.8	---	4.0	8.5	---
TOTAL	878.6	1127	1535	1864	1265	1532	1403	770.7	585.5	273.3	127.7	417.5
MEAN	28.3	37.6	49.5	60.1	45.2	49.4	46.8	24.9	19.5	8.82	4.12	13.9
MAX	92	57	131	143	209	207	244	50	97	24	11	74
MIN	9.1	30	31	30	22	29	21	7.8	5.7	4.0	2.2	1.5
CFSM	1.66	2.21	2.91	3.54	2.66	2.91	2.75	1.46	1.15	.52	.24	.82
IN.	1.92	2.47	3.36	4.08	2.77	3.35	3.07	1.69	1.28	.60	.28	.91

CAL YR 1974 TOTAL 12816.7 MEAN 35.1 MAX 431 MIN 2.5 CFSM 2.06 IN 28.05
WTR YR 1975 TOTAL 11779.3 MEAN 32.3 MAX 244 MIN 1.5 CFSM 1.90 IN 25.78

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.

LOCATION.--Lat 41°35'52", long 71°59'05", New London County, on left bank behind high school on Slater Avenue at Jewett City, 570 ft (174 m) downstream from outlet of canal from Wedgewood Mills at mouth of Pachaug River, 1,000 ft (305 m) downstream from railroad bridge and at mile 6.1 (9.8 km).

DRAINAGE AREA.--715 mi^2 (1,852 km^2).

PERIOD OF RECORD.--Discharge: July 1918 to current year.
Chemical analyses: October 1955 to September 1956, June 1968 to current year.
Water temperatures: October 1955 to September 1956, October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 63.07 ft (19.224 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage).--57 years, 1,247 ft^3/s (35.32 m^3/s), 23.69 in/yr (602 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,740 ft^3/s (163 m^3/s) Feb. 26, gage height, 11.51 ft (3.508 m); minimum, 126 ft^3/s (3.57 m^3/s) Sept. 7, gage height, 4.28 ft (1.305 m).
Specific conductance: Maximum recorded, 309 micromhos July 23; minimum recorded, 42 micromhos June 14.
Water temperatures: Maximum, 32.5°C Aug. 2; minimum, freezing point on Jan. 21.

Period of record: Maximum discharge, 40,700 ft^3/s (1,150 m^3/s) Aug. 20, 1955, gage height, 29.0 ft (8.84 m) from floodmarks, from rating curve extended above 11,000 ft^3/s (312 m^3/s) by computation of peak flows over three nearby dams at gage heights 21.7 ft (6.61 m), 22.5 ft (6.86 m), 24.0 ft (7.32 m), and 29.0 ft (8.84 m); minimum, 16 ft^3/s (0.45 m^3/s) Sept. 25, 1948, Nov. 18, 1950; minimum daily, 18 ft^3/s (0.51 m^3/s) Aug. 28, Dec. 11, 1949; minimum gage height, 3.45 ft (1.052 m) Sept. 25, 1948.
Specific conductance (1974-75): Maximum recorded, 309 micromhos July 23, 1975; minimum recorded, 42 micromhos June 14, 1975.
Water temperatures: Maximum, 32.5°C Aug. 2, 1975; minimum, freezing point on many days during winter months.

REMARKS.--Records excellent. Flow regulated by East Brimfield, Westville, West Thompson, Hodges Village, Buffumville Reservoirs, (see p. 94), by Lake Chaugungagungamaug, estimated usable capacity, 207,000,000 ft^3 (5,860,000 m^3) and by smaller reservoirs upstream. See REVISIONS summary paragraph in WSP 1901. Records of iron, specific conductance, and pH of daily samples for 1955-56 available in district office at Hartford, Conn.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2700	1310	823	1470	2230	3000	2120	1160	605	388	230	259
2	2220	1250	1790	1570	2000	2640	1940	1140	610	329	211	236
3	1770	1140	3660	1470	1790	2340	2410	1230	580	277	197	249
4	1390	1040	3230	1370	1580	2030	5020	1220	575	243	176	236
5	1130	1070	2710	1280	1550	1870	5170	1290	616	230	163	214
6	979	1140	2130	1170	1530	1740	4230	1280	945	220	158	184
7	838	1200	1810	1280	1530	1660	3440	1220	1380	227	182	128
8	734	1140	1880	1530	1470	1670	2790	1140	1250	281	243	128
9	676	1090	3630	1760	1440	1640	2470	1060	1090	256	374	128
10	621	1030	4010	2480	1250	1530	2210	991	957	253	365	128
11	570	962	3580	2520	1310	1460	1990	974	803	243	329	131
12	541	918	2790	3290	1160	1470	1880	912	769	456	300	152
13	517	934	2550	3760	1160	1680	1750	1030	1540	664	267	263
14	565	1000	2270	4810	1270	1740	1620	1450	1940	664	239	304
15	545	997	2030	4580	1280	1730	1540	1440	1710	670	209	259
16	896	957	1920	3680	1280	1690	1480	1490	1470	664	187	246
17	2450	907	2570	2850	1270	1720	1410	1590	1280	580	176	277
18	2550	869	2930	2420	1300	1740	1330	1400	1170	541	168	277
19	2070	848	2700	3550	1330	1710	1310	1220	1020	465	158	267
20	1690	843	2410	3680	1480	3200	1300	1070	875	388	152	256
21	1430	1130	2160	3240	1530	4810	1230	962	759	461	141	296
22	1220	1470	2000	2860	1500	4710	1160	875	637	560	135	333
23	1120	1430	1900	2540	1600	3870	1110	823	565	522	131	444
24	1220	1300	1780	2280	2310	3100	1160	813	508	465	129	918
25	1040	1200	1750	2380	4520	2830	1550	793	465	482	133	1740
26	974	1150	1720	3570	5560	2640	1760	704	429	504	137	1790
27	923	1040	1600	3470	4860	2450	1710	670	383	440	139	2210
28	875	979	1530	2970	3720	2140	1550	716	360	374	131	2730
29	843	912	1440	2670	---	1950	1410	670	403	333	128	2530
30	833	864	1400	2680	---	2030	1260	605	469	296	220	2110
31	945	---	1420	2490	---	2270	---	570	---	256	355	---
TOTAL	36875	32120	70123	81670	54810	71060	61310	32508	26163	12732	6263	19423
MEAN	1190	1071	2262	2635	1958	2292	2044	1049	872	411	202	647
MAX	2700	1470	4010	4810	5560	4810	5170	1590	1940	670	374	2730
MIN	517	843	823	1170	1160	1460	1110	570	360	220	128	128
(†)	-34.2	+5.5	+3.9	+6.3	+2.6	-2.8	-9.6	-4.3	-6.1	+0.3	-0.1	+56.0
MEAN‡	1156	1076	2266	2641	1961	2289	2034	1045	866	411	202	703
CFSM‡	1.62	1.50	3.17	3.69	2.74	3.20	2.84	1.46	1.21	0.57	0.28	0.98
IN‡	1.87	1.67	3.66	4.25	2.85	3.69	3.17	1.68	1.35	0.66	0.32	1.09

CAL YR 1974 TOTAL 561855 MEAN 1539 MAX 7570 MIN 120 MEAN‡ 1535 CFSM‡ 2.15 IN‡ 29.14
WTR YR 1975 TOTAL 505057 MEAN 1384 MAX 5560 MIN 128 MEAN‡ 1385 CFSM‡ 1.94 IN‡ 26.26

†Change in contents in East Brimfield, Westville, West Thompson, Hodges Village, and Buffumville Reservoirs, equivalent in cubic feet per second; reservoir records furnished by Corps of Engineers.

‡Adjusted for change in contents.

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
22...	1420	1250	6.9	15.5	7.0	12.0	98	5.9	10	220	20	20
NOV.												
12...	1350	940	7.0	14.0	8.5	12.1	103	6.4	10	220	30	10
DEC.												
10...	1310	4010	6.8	2.0	4.0	13.9	105	6.6	0	160	40	20
JAN.												
22...	1020	2950	6.5	3.0	1.0	14.2	100	6.9	0	120	30	10
FEB.												
05...	0930	1560	6.6	-3.0	1.0	14.6	102	7.1	0	110	50	10
MAR.												
10...	1340	1520	7.1	4.5	3.0	13.8	101	6.4	0	130	40	10
APR.												
15...	1240	1550	6.8	11.0	10.0	12.1	107	5.0	0	200	50	10
MAY												
07...	1345	1270	7.1	23.5	14.0	11.3	109	4.3	0	240	40	0
JUNE												
11...	1310	800	7.2	21.0	19.5	9.6	104	5.3	0	430	50	10
JULY												
28...	1000	410	7.2	24.0	24.0	9.3	109	5.6	10	210	7	0
AUG.												
20...	0900	150	7.1	19.0	22.5	8.5	98	5.1	0	60	10	0
SEP.												
10...	0900	140	7.3	12.0	18.0	--	--	4.4	0	100	10	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
22...	11	16	13	0	11	17	53	.00	.24	.63	.81	1.4
NOV.												
12...	7.0	2.0	17	0	14	11	11	.01	.35	.46	.59	.57
DEC.												
10...	9.0	11	9	0	7	54	8.9	.02	.28	.27	.35	.41
JAN.												
22...	5.0	1.2	6	0	5	11	10	.00	.42	.11	.14	.23
FEB.												
05...	5.0	1.4	7	0	6	11	10	.01	.50	.13	.17	.30
MAR.												
10...	5.2	1.3	11	0	9	12	12	.01	.48	.10	.13	.35
APR.												
15...	5.8	1.2	10	0	8	9.0	11	.01	.41	.10	.13	.12
MAY												
07...	6.2	1.1	13	0	11	9.9	12	.01	.43	.02	.03	.48
JUNE												
11...	6.5	1.3	20	0	16	8.7	12	.00	.61	.07	.09	.59
JULY												
28...	7.7	1.6	31	0	25	9.0	15	.00	.15	.00	.00	1.5
AUG.												
20...	10	2.1	31	0	25	11	15	.00	.14	.07	.09	1.1
SEP.												
10...	11	1.5	47	0	39	14	18	.02	.48	.02	.03	1.2

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
22...	.77	1.6	7.3	.28	150	143	483	.19	93	83	153	30
NOV.												
12...	.11	.92	4.1	.13	71	74	188	.10	26	12	100	30
DEC.												
10...	.14	.69	3.1	.07	66	653	7070	.89	68	60	72	40
JAN.												
22...	.12	.65	2.9	.04	66	68	542	.09	17	13	80	30
FEB.												
05...	.17	.80	3.5	.07	61	56	236	.08	18	13	85	30
MAR.												
10...	.25	.83	3.7	.10	69	57	234	.08	18	9	92	10
APR.												
15...	.02	.53	2.3	.07	72	58	243	.08	19	11	91	13
MAY												
07...	.46	.91	4.0	.10	69	67	230	.09	20	9	106	22
JUNE												
11...	.52	1.2	5.3	.14	79	72	156	.10	22	5	106	45
JULY												
28...	1.5	1.7	7.3	.22	84	88	97.4	.12	26	0	131	21
AUG.												
20...	1.0	1.2	5.5	.11	96	95	38.5	.13	34	8	138	15
SEP.												
10...	1.2	1.7	7.4	.12	121	121	45.7	.16	34	0	163	7

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
22...	4	2.6	140000	4400	650	15	0	.0	2.5	.0	--
NOV.											
12...	2	2.7	38000	2000	270	10	1	.1	3.7	.7	3
DEC.											
10...	2	2.3	23000	2000	1400	6.9	0	.0	3.0	.3	--
JAN.											
22...	2	3.0	6000	730	120	7.6	0	.0	1.5	1.0	--
FEB.											
05...	2	2.8	1500	78	22	4.1	0	.0	--	--	--
MAR.											
10...	1	1.4	2300	560	240	6.7	0	.0	--	--	--
APR.											
15...	2	2.5	380	16	5	4.6	0	.0	.0	.0	--
MAY											
07...	4	1.7	64	B32	7	4.4	--	.1	3.0	.0	--
JUNE											
11...	4	2.0	400	72	160	5.9	0	.1	7.0	.0	--
JULY											
28...	12	3.1	--	110	56	12	0	.0	38	.0	--
AUG.											
20...	7	3.9	500	80	120	8.9	0	.1	14	.0	--
SEP.											
10...	7	3.8	620	B410	520	8.6	0	.1	10	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 22...	.0	5	1.7	.0	7.0	3.3	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 22...	0	0	.0	.0	.0	.0	.0	.0	.0	22	I	3

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 22...	I00	.3	I4600	2	I	I5	18	2900	92	50	.1	37

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	73	72	73	99	89	94	104	86	100	89	86	88
2	77	73	75	103	93	98	91	83	88	94	88	91
3	82	76	78	103	92	98	86	72	76	99	94	97
4	85	81	83	102	93	96	77	72	75	96	90	93
5	88	82	85	102	95	98	80	77	79	99	94	96
6	96	85	91	102	95	98	82	80	80	104	97	100
7	101	94	97	103	97	100	82	79	81	99	90	93
8	108	98	101	100	98	99	82	78	80	101	94	97
9	105	97	101	104	99	101	81	69	75	95	90	92
10	106	98	101	104	99	102	72	68	71	93	88	91
11	109	97	104	103	97	100	81	72	76	88	82	85
12	112	101	106	101	94	98	81	79	80	93	83	91
13	113	98	106	104	100	102	81	80	81	93	86	90
14	112	105	109	103	101	102	84	82	83	92	85	88
15	115	92	106	104	99	101	85	81	82	92	86	89
16	112	77	90	102	91	100	84	80	82	94	92	93
17	90	77	85	104	97	100	82	79	81	95	93	94
18	77	75	76	105	99	102	82	77	79	96	81	90
19	78	77	77	107	104	106	84	80	82	86	80	83
20	81	77	79	109	105	107	85	83	84	85	78	80
21	82	79	81	103	99	101	86	84	85	90	85	87
22	85	79	82	100	98	99	87	85	86	115	89	95
23	89	80	84	98	96	97	88	86	87	97	94	96
24	92	84	89	98	91	95	88	85	86	97	95	96
25	93	84	90	100	92	97	88	86	87	97	89	93
26	94	83	88	101	99	100	87	85	86	97	93	95
27	96	82	90	100	95	97	87	86	87	92	89	91
28	98	86	93	100	96	98	93	87	89	91	87	89
29	97	85	93	105	99	102	89	78	84	92	85	88
30	102	88	94	104	100	102	88	84	86	95	91	94
31	94	79	84	---	---	---	91	87	89	95	92	93
MONTH	115	72	90	109	89	100	104	68	83	115	78	92

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	94	91	93	77	75	76	72	70	71	87	56	65
2	97	91	94	75	74	74	73	71	72	82	57	67
3	97	93	95	77	74	76	73	57	66	77	58	62
4	100	95	97	77	75	76	62	57	57	73	59	65
5	98	95	97	78	75	76	62	58	59	65	62	63
6	100	84	93	80	76	78	63	62	63	111	61	71
7	96	84	91	82	79	80	64	63	63	110	63	69
8	100	96	98	83	81	82	64	62	63	84	63	69
9	102	99	100	81	76	78	69	64	66	---	---	---
10	101	94	98	80	76	79	71	68	70	---	---	---
11	100	96	99	82	75	78	73	71	72	---	---	---
12	102	98	100	80	65	75	74	72	73	---	---	---
13	102	96	99	76	61	67	74	73	74	---	---	---
14	99	89	96	76	74	75	75	73	74	---	---	---
15	102	87	97	84	50	69	75	61	74	---	---	---
16	93	86	90	80	76	78	70	65	68	---	---	---
17	95	79	87	83	79	80	78	75	77	---	---	---
18	96	86	93	86	82	83	105	64	76	---	---	---
19	97	92	95	85	82	83	81	68	75	---	---	---
20	100	95	97	---	---	---	73	66	68	---	---	---
21	101	78	95	71	62	69	72	67	68	---	---	---
22	97	80	89	72	71	72	97	68	75	---	---	---
23	97	91	94	73	71	72	101	71	81	---	---	---
24	93	80	87	73	67	71	107	77	92	---	---	---
25	81	77	78	---	---	---	74	66	69	---	---	---
26	80	75	78	69	62	67	67	56	61	---	---	---
27	80	78	79	70	67	69	59	55	56	---	---	---
28	79	77	78	71	69	70	61	54	56	---	---	---
29	---	---	---	72	70	71	64	53	56	---	---	---
30	---	---	---	72	66	68	73	54	59	---	---	---
31	---	---	---	71	66	69	---	---	---	---	---	---
MONTH	102	75	92	86	36	75	107	42	68	---	---	---

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM at 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975-- continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	113	107	109	136	125	131
2	---	---	---	---	---	---	113	106	110	162	123	141
3	---	---	---	---	---	---	114	107	110	142	126	133
4	---	---	---	---	---	---	116	107	112	158	112	126
5	---	---	---	---	---	---	---	---	---	147	120	140
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	125	113	116	---	---	---
8	---	---	---	---	---	---	118	111	114	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	173	117	143
11	84	70	76	---	---	---	108	99	103	147	139	144
12	90	83	87	---	---	---	102	96	99	139	107	126
13	85	51	73	---	---	---	107	96	102	147	106	123
14	63	42	52	---	---	---	104	94	99	158	139	152
15	62	46	52	---	---	---	108	96	100	157	125	141
16	63	48	56	---	---	---	103	98	101	151	121	141
17	71	57	61	---	---	---	103	99	101	137	113	129
18	68	56	60	---	---	---	116	92	99	138	134	136
19	70	54	64	---	---	---	111	97	103	140	135	137
20	72	53	65	---	---	---	108	101	104	140	130	138
21	---	---	---	---	---	---	113	91	101	140	110	129
22	---	---	---	307	261	286	96	83	89	125	95	114
23	---	---	---	309	301	306	96	83	92	118	108	111
24	---	---	---	300	252	276	104	90	95	108	88	102
25	---	---	---	252	217	229	97	89	92	92	72	83
26	---	---	---	217	129	192	103	88	96	99	62	84
27	---	---	---	129	121	124	120	91	98	66	59	63
28	---	---	---	121	111	115	106	90	101	79	57	60
29	---	---	---	116	105	110	110	105	108	89	61	75
30	---	---	---	116	105	109	110	96	105	88	61	79
31	---	---	---	116	110	112	127	110	117	---	---	---
MONTH	---	---	---	---	---	---	127	83	103	173	57	119
YEAR	309	42	92									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	16.5	17.0	13.0	11.0	12.0	2.5	2.0	2.5	2.0	1.5	2.0
2	16.5	15.5	16.0	14.5	13.0	13.5	3.5	2.5	3.0	2.5	1.5	2.0
3	15.5	14.0	15.0	14.0	13.5	13.5	4.0	3.5	4.0	2.0	1.5	1.5
4	14.5	13.5	14.0	14.0	13.5	13.5	3.5	2.5	3.0	2.0	1.0	1.5
5	14.0	12.5	13.5	14.0	13.5	14.0	2.0	1.5	1.5	2.0	1.5	1.5
6	14.0	13.0	13.5	14.0	13.5	14.0	1.5	1.0	1.0	1.5	1.0	1.5
7	15.0	14.0	14.5	13.5	12.5	13.0	1.5	1.0	1.0	1.5	1.0	1.5
8	15.5	14.0	14.5	12.5	11.0	11.5	4.0	1.5	2.5	2.5	1.5	2.0
9	15.5	13.5	14.5	11.0	10.5	11.0	5.5	4.0	5.0	2.5	2.0	2.0
10	14.5	13.5	14.0	10.5	10.0	10.0	5.0	3.5	4.0	2.5	2.5	2.5
11	15.5	13.0	14.0	10.0	9.0	9.5	3.5	2.5	3.0	3.5	2.5	3.0
12	14.0	12.5	13.5	9.5	9.5	9.5	2.5	2.5	2.5	5.0	3.5	4.5
13	15.0	13.0	14.0	10.5	9.5	10.0	2.5	2.5	2.5	5.0	3.5	4.0
14	14.0	12.5	13.0	10.5	9.5	10.0	3.0	2.5	2.5	3.5	2.5	3.0
15	15.0	13.5	14.0	10.0	9.0	9.5	3.0	2.5	2.5	2.5	1.0	1.5
16	14.0	12.5	13.0	9.0	8.0	8.5	2.5	2.5	2.5	1.0	0.5	1.0
17	12.5	12.0	12.5	8.0	7.0	7.5	3.0	2.5	3.0	1.0	0.5	1.0
18	12.5	11.5	12.0	7.0	6.5	6.5	3.0	2.5	3.0	1.0	0.5	0.5
19	11.5	10.0	11.0	7.0	6.0	6.0	2.5	2.0	2.5	1.5	0.5	1.0
20	10.5	9.0	9.5	7.5	6.0	6.5	2.5	2.0	2.0	2.0	1.0	1.5
21	9.0	7.5	8.5	7.5	7.0	7.0	2.5	2.5	2.5	0.5	0.0	0.5
22	8.5	7.5	8.0	7.0	6.0	7.0	3.0	2.5	2.5	1.5	0.5	1.0
23	8.5	7.5	8.0	6.0	5.0	5.5	2.5	2.5	2.5	2.0	1.5	1.5
24	9.0	7.5	8.5	5.0	4.5	4.5	2.5	2.5	2.5	2.0	1.5	2.0
25	9.0	8.0	8.5	5.0	4.5	4.5	2.5	2.0	2.5	2.5	1.5	2.0
26	9.0	8.0	8.5	5.0	4.0	4.5	2.0	1.0	1.5	3.0	2.0	2.5
27	10.0	8.5	9.0	4.0	3.0	3.5	1.0	0.5	1.0	2.5	2.0	2.5
28	9.0	8.5	9.0	3.5	2.5	3.0	1.5	0.5	1.0	2.5	2.0	2.0
29	9.5	9.0	9.0	3.0	2.5	2.5	1.5	0.5	1.0	3.0	2.0	2.5
30	10.0	9.0	9.5	3.0	2.0	2.5	2.0	1.0	1.5	3.5	3.0	3.0
31	11.0	10.0	10.0	---	---	---	2.0	1.5	1.5	3.0	2.0	2.5
MONTH	17.5	7.5	12.0	14.5	2.0	8.5	5.5	0.5	2.5	5.0	0.0	2.0

01127000 QUINEBAUG RIVER AT JEWETT CITY, CONN.--continued
TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.5	2.0	4.0	4.0	4.0	6.5	5.5	6.0	14.5	13.5	14.0
2	2.0	1.5	1.5	3.5	3.0	3.5	8.0	6.5	7.5	14.0	13.5	13.5
3	2.0	1.0	1.5	3.0	2.5	3.0	8.5	7.5	8.0	15.0	13.0	14.0
4	1.5	1.0	1.0	3.0	2.5	2.5	8.0	6.0	7.0	14.0	13.5	14.0
5	1.5	1.0	1.0	3.5	2.5	3.0	6.0	5.5	5.5	14.0	12.5	13.0
6	1.5	1.0	1.5	3.5	3.0	3.5	5.5	5.0	5.5	14.0	12.5	13.0
7	2.0	1.5	1.5	4.5	3.5	4.0	6.0	5.0	5.5	15.0	13.0	13.5
8	2.5	1.5	2.0	5.5	4.0	5.0	7.0	6.0	6.5	17.5	14.0	15.0
9	1.5	1.0	1.5	4.0	3.0	3.5	7.5	7.0	7.0	---	---	---
10	2.0	0.5	1.0	3.5	2.5	3.0	8.0	7.0	7.5	---	---	---
11	1.0	0.5	1.0	3.5	2.5	3.0	9.0	8.0	8.5	---	---	---
12	1.0	0.5	0.5	4.0	3.0	3.5	10.0	8.5	9.0	---	---	---
13	1.5	0.5	1.0	4.5	3.5	4.0	10.0	9.0	9.5	---	---	---
14	1.5	0.5	1.0	4.5	3.5	4.0	10.5	8.5	9.5	---	---	---
15	1.5	0.5	1.0	3.5	3.0	3.5	10.0	9.0	9.5	---	---	---
16	1.5	1.0	1.0	4.0	3.0	3.5	10.0	9.0	9.5	---	---	---
17	2.0	1.0	1.5	5.5	3.5	4.5	11.5	9.5	10.5	---	---	---
18	2.0	1.5	1.5	6.5	5.0	5.5	11.5	10.0	11.0	---	---	---
19	2.0	1.5	2.0	7.0	5.5	6.0	12.0	11.5	11.5	---	---	---
20	3.0	2.0	2.5	8.5	6.5	7.5	12.5	11.5	12.0	---	---	---
21	4.0	3.0	3.5	8.0	7.0	7.5	13.0	11.5	12.0	---	---	---
22	4.5	3.0	3.5	7.5	6.0	6.5	12.5	11.0	11.5	---	---	---
23	4.5	3.5	4.0	7.0	6.0	6.5	12.5	11.0	11.5	---	---	---
24	4.5	3.5	4.0	7.0	6.5	7.0	13.0	12.0	12.5	---	---	---
25	4.0	3.0	3.5	7.5	6.5	7.0	13.5	13.0	13.0	---	---	---
26	4.0	3.5	3.5	8.0	7.0	7.5	14.0	13.0	13.5	---	---	---
27	3.5	3.5	3.5	7.0	6.0	6.5	13.5	12.0	13.0	---	---	---
28	4.0	3.5	3.5	6.0	5.0	5.5	13.0	11.5	12.5	---	---	---
29	---	---	---	6.0	5.5	5.5	13.5	11.5	12.5	---	---	---
30	---	---	---	6.0	5.5	5.5	14.5	12.0	13.0	---	---	---
31	---	---	---	6.0	5.5	5.5	---	---	---	---	---	---
MONTH	4.5	0.5	2.0	8.5	2.5	5.0	14.5	5.0	9.5	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	32.0	26.0	28.0	23.0	19.5	21.0
2	---	---	---	---	---	---	32.5	27.0	29.0	23.0	19.5	20.5
3	---	---	---	---	---	---	32.0	28.0	30.0	21.5	20.0	20.5
4	---	---	---	---	---	---	31.0	27.0	28.5	24.0	19.5	21.0
5	---	---	---	---	---	---	27.5	26.0	26.5	24.0	19.5	21.0
6	---	---	---	---	---	---	27.0	24.0	25.5	22.0	19.5	20.5
7	---	---	---	---	---	---	24.0	22.5	23.0	23.0	17.5	19.5
8	---	---	---	---	---	---	23.5	22.5	23.0	25.0	19.0	21.0
9	---	---	---	---	---	---	27.0	22.0	24.5	22.0	16.5	19.5
10	---	---	---	---	---	---	25.5	22.0	24.0	25.5	14.5	15.5
11	20.5	19.0	19.5	---	---	---	26.5	23.0	25.0	22.0	15.5	18.5
12	20.0	19.0	19.5	---	---	---	29.0	24.5	26.5	21.0	19.0	20.0
13	19.0	18.5	19.0	---	---	---	28.5	24.5	26.0	21.5	18.5	19.5
14	18.5	18.0	18.5	---	---	---	28.5	24.5	26.0	20.5	18.0	19.0
15	20.0	18.5	19.5	---	---	---	29.0	24.5	26.5	20.5	17.0	18.0
16	20.5	20.0	20.5	---	---	---	25.5	24.5	25.0	19.0	16.5	17.5
17	21.0	20.0	20.5	---	---	---	25.0	24.0	24.5	20.0	17.0	18.5
18	22.0	20.5	21.5	---	---	---	27.5	24.0	25.0	19.5	18.5	19.0
19	24.5	21.5	23.0	---	---	---	27.0	22.0	23.5	19.5	18.0	18.5
20	25.0	23.5	24.5	---	---	---	26.5	21.5	22.0	19.5	18.5	19.0
21	---	---	---	---	---	---	25.0	20.5	22.5	20.0	19.0	19.0
22	---	---	---	30.5	27.0	28.5	26.0	20.0	23.0	21.0	18.5	19.5
23	---	---	---	29.0	26.5	27.5	26.5	19.0	22.0	19.5	19.0	19.0
24	---	---	---	28.5	27.0	27.5	21.0	20.0	20.5	19.0	17.0	18.5
25	---	---	---	27.0	26.5	27.0	24.0	20.5	22.0	17.0	15.5	16.5
26	---	---	---	29.0	25.5	27.0	22.5	21.5	22.0	16.5	15.5	16.0
27	---	---	---	27.5	25.0	26.0	26.0	20.5	23.0	17.5	16.5	17.0
28	---	---	---	27.0	24.5	25.0	26.5	19.5	22.0	17.5	17.0	17.0
29	---	---	---	29.0	24.5	26.0	25.5	19.0	21.5	17.0	16.5	17.0
30	---	---	---	28.5	24.5	26.0	22.0	21.0	21.5	17.0	16.5	17.0
31	---	---	---	28.5	24.5	26.0	23.5	20.5	21.5	---	---	---
MONTH	---	---	---	---	---	---	32.5	19.0	24.5	25.5	14.5	19.0
YEAR	32.5	0.0	10.5									

01127140 QUINEBAUG RIVER AT TAFTVILLE, CONN.

LOCATION.--Lat 41°33'19", long 72°02'28", New London County, at Tunnel Dam, 1.0 mi (1.6 km) south of Taftville.

DRAINAGE AREA.--744 mi^2 (1,927 km^2).

PERIOD OF RECORD.--Chemical analyses: January to September 1975.
Water temperatures: January to September 1975.

EXTREMES.--Current year: Specific conductance: Maximum recorded, 171 micromhos Sept. 15; minimum recorded, 70 micromhos Sept. 28.
Water temperatures: Maximum, 31.0°C July 22, Aug. 1-4; minimum recorded, freezing point on Feb. 4, 5.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	87	86	86
24	---	---	---	---	---	---	---	---	---	87	87	87
25	---	---	---	---	---	---	---	---	---	88	87	88
26	---	---	---	---	---	---	---	---	---	87	83	86
27	---	---	---	---	---	---	---	---	---	83	80	81
28	---	---	---	---	---	---	---	---	---	82	80	81
29	---	---	---	---	---	---	---	---	---	84	82	83
30	---	---	---	---	---	---	---	---	---	85	84	85
31	---	---	---	---	---	---	---	---	---	86	85	85
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01127140 QUINEBAUG RIVER AT TAFTVILLE, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM at 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975-- continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	86	86	86	85	84	84	84	84	84	93	91	91
2	87	86	86	84	84	84	85	83	84	94	92	92
3	88	86	87	85	84	84	85	85	85	94	92	92
4	87	84	86	85	84	85	84	70	76	94	93	93
5	87	84	85	86	85	85	75	70	72	94	92	93
6	87	85	86	88	86	86	77	75	76	95	93	94
7	90	86	88	90	88	88	77	76	77	94	93	93
8	92	88	89	90	89	89	78	76	77	96	94	95
9	90	88	89	90	89	89	81	77	79	97	96	96
10	90	87	89	90	88	89	84	82	83	98	96	97
11	93	89	91	90	89	90	85	84	84	100	97	98
12	94	91	93	90	89	90	86	84	85	101	98	99
13	91	88	90	90	88	89	87	85	86	102	97	99
14	91	89	91	89	88	89	88	86	87	100	98	99
15	96	91	94	91	88	89	90	87	88	98	96	97
16	97	95	96	93	89	90	91	89	90	96	91	93
17	97	95	96	93	91	92	91	90	91	96	93	94
18	97	93	95	93	90	91	92	90	91	96	91	93
19	94	92	93	93	91	92	94	92	93	93	91	92
20	96	92	94	93	88	90	95	94	94	94	92	93
21	97	94	96	87	82	83	95	94	95	94	93	94
22	100	96	98	84	82	83	95	93	94	95	94	94
23	101	99	100	84	84	84	96	93	94	97	95	96
24	101	93	97	84	82	83	98	96	97	98	96	97
25	93	84	88	82	81	81	97	95	96	99	96	97
26	83	81	82	82	80	81	94	90	92	102	99	100
27	84	83	83	84	82	83	90	88	89	103	101	102
28	85	83	84	84	83	84	89	87	88	103	100	101
29	---	---	---	85	84	84	90	88	89	104	103	104
30	---	---	---	87	85	85	91	89	90	105	103	104
31	---	---	---	86	84	85	---	---	---	106	105	106
MONTH	101	81	90	93	80	86	98	70	87	106	91	96

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	108	107	107	112	109	111	140	124	130	153	146	149
2	108	106	107	113	111	112	130	125	127	153	151	152
3	108	106	107	114	112	113	130	125	127	152	142	148
4	108	106	107	113	110	111	133	127	129	145	133	138
5	111	108	109	113	111	112	135	129	131	134	130	131
6	111	106	108	115	112	114	137	130	132	131	128	129
7	109	105	107	117	115	116	138	129	133	133	126	128
8	104	98	101	117	113	116	136	129	132	153	130	142
9	99	97	98	117	114	115	141	131	136	166	154	159
10	98	96	97	118	115	116	141	133	137	166	160	163
11	99	99	99	122	116	118	142	133	136	168	164	166
12	101	99	100	121	102	113	154	134	140	168	164	167
13	99	95	96	111	103	108	161	138	143	164	147	155
14	95	83	89	112	110	111	160	141	148	168	147	160
15	85	83	84	110	105	107	161	138	149	171	168	169
16	90	85	88	106	104	106	163	152	158	169	165	167
17	93	90	91	109	104	106	159	149	154	165	149	159
18	95	93	94	110	107	109	160	134	146	150	135	144
19	96	95	95	115	110	112	155	133	144	147	140	144
20	98	96	96	120	113	117	155	133	144	146	135	140
21	99	97	98	127	114	118	154	134	144	138	124	131
22	102	98	100	128	115	123	155	133	139	128	121	125
23	104	102	103	140	121	128	162	154	157	128	119	123
24	108	105	106	134	123	128	159	154	157	133	110	126
25	109	107	108	132	121	125	156	139	150	128	104	122
26	113	109	111	124	120	122	159	140	149	126	94	119
27	113	110	111	127	122	124	152	140	147	120	99	112
28	113	111	112	127	122	125	152	143	147	113	70	104
29	115	109	113	130	121	125	151	140	146	108	83	104
30	109	102	104	132	121	125	146	141	144	106	78	102
31	---	---	---	137	126	129	146	137	142	---	---	---
MONTH	115	83	102	140	102	117	163	124	142	171	70	139
YEAR	171	70	107									

01127140 QUINEBAUG RIVER AT TAFTVILLE, CONN.--continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	1.5	0.5	1.0
24	---	---	---	---	---	---	---	---	---	1.5	0.5	1.0
25	---	---	---	---	---	---	---	---	---	2.0	1.0	1.5
26	---	---	---	---	---	---	---	---	---	2.5	2.0	2.0
27	---	---	---	---	---	---	---	---	---	2.0	1.5	2.0
28	---	---	---	---	---	---	---	---	---	1.5	1.0	1.5
29	---	---	---	---	---	---	---	---	---	2.5	1.5	2.0
30	---	---	---	---	---	---	---	---	---	3.0	2.0	2.5
31	---	---	---	---	---	---	---	---	---	2.0	1.0	2.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.5	1.0	3.5	3.0	3.0	6.5	4.5	5.5	14.5	12.0	13.0
2	1.5	0.5	1.0	3.0	2.5	2.5	8.0	5.5	6.5	13.5	13.0	13.5
3	1.5	0.5	0.5	3.0	1.5	2.0	7.0	6.5	6.5	15.0	13.0	14.0
4	0.5	0.0	0.5	3.0	1.5	2.0	6.5	5.5	6.0	14.0	13.0	13.5
5	0.5	0.0	0.5	3.0	1.0	2.0	5.0	4.5	5.0	13.5	12.5	13.0
6	0.5	0.5	0.5	3.5	1.5	2.5	5.0	4.5	4.5	14.5	12.0	13.0
7	1.5	0.5	1.0	4.5	2.0	3.0	5.5	4.5	5.0	15.5	12.5	13.5
8	1.5	0.5	1.0	4.5	3.5	4.0	7.0	5.0	5.5	16.0	13.5	14.5
9	1.0	0.5	1.0	4.0	2.5	3.0	7.0	6.0	6.5	17.0	14.0	15.5
10	1.0	0.5	0.5	3.0	1.5	2.0	8.0	6.0	7.0	17.5	14.5	16.0
11	0.5	0.5	0.5	3.0	1.5	2.0	9.5	6.5	8.0	19.0	[illegible]	16.5
12	0.5	0.5	0.5	3.0	2.0	2.5	10.0	7.5	8.5	19.5	15.5	17.5
13	0.5	0.5	0.5	4.0	3.0	3.5	9.5	7.5	8.5	19.5	17.0	18.0
14	0.5	0.5	0.5	3.5	3.0	3.5	10.5	7.5	9.0	20.5	17.5	19.0
15	0.5	0.5	0.5	3.5	2.5	3.0	10.0	8.0	9.0	21.5	18.5	20.0
16	0.5	0.5	0.5	4.0	1.0	2.5	10.5	8.5	9.5	21.0	19.5	20.0
17	1.5	0.5	1.0	5.0	2.5	3.5	11.5	8.5	10.0	21.0	19.0	20.0
18	1.5	0.5	1.0	6.5	3.5	4.5	11.5	9.5	10.5	20.5	18.5	19.5
19	2.0	0.5	1.0	6.5	4.5	5.5	12.0	11.0	11.5	21.5	19.0	20.0
20	2.5	0.5	1.5	7.5	6.0	7.0	13.0	11.0	11.5	22.5	19.5	21.0
21	4.0	2.0	2.5	7.5	6.5	7.0	12.5	10.5	11.5	24.0	20.5	22.0
22	4.0	2.0	3.0	6.5	5.5	6.0	13.0	10.0	11.5	23.5	21.0	22.0
23	3.5	2.5	3.0	6.5	5.0	5.5	13.5	10.0	11.5	25.0	21.0	23.0
24	3.5	3.0	3.5	6.0	5.0	6.0	12.5	11.0	12.0	25.5	21.5	24.0
25	3.5	3.0	3.5	6.5	5.0	6.0	13.0	12.5	12.5	25.0	22.0	22.5
26	3.5	3.0	3.0	7.5	6.0	6.5	14.5	12.5	13.0	23.0	20.5	21.5
27	3.5	2.5	3.0	6.0	5.0	5.5	13.5	12.0	12.5	23.5	20.5	22.0
28	3.5	2.5	3.0	6.0	4.0	5.0	13.5	11.0	12.0	24.5	20.5	22.0
29	---	---	---	5.0	4.0	4.5	13.5	11.0	12.0	23.0	20.5	21.5
30	---	---	---	5.5	4.5	5.0	14.5	11.0	12.5	23.0	20.0	21.5
31	---	---	---	5.5	4.0	5.0	---	---	---	22.5	20.5	21.5
MONTH	4.0	0.0	1.5	7.5	1.0	4.0	14.5	4.5	9.0	25.5	12.0	18.5

01127140 QUINEBAUG RIVER AT TAFTVILLE, CONN.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.0	20.5	21.5	25.0	22.0	24.0	31.0	27.5	29.0	21.0	20.0	20.5
2	24.5	20.5	22.0	25.5	21.0	23.5	31.0	29.5	30.5	21.5	20.0	20.5
3	23.5	20.5	21.5	25.5	23.0	24.5	31.0	30.5	31.0	21.0	20.0	20.5
4	22.0	20.0	21.0	26.0	25.0	25.5	31.0	28.5	29.5	21.0	19.0	20.0
5	21.5	19.5	20.0	26.0	25.5	26.0	29.0	27.0	28.0	21.5	20.5	21.0
6	19.5	18.0	19.0	26.0	25.0	25.5	29.0	27.5	28.5	21.5	20.0	21.0
7	19.0	17.0	18.0	26.5	23.5	26.0	27.5	24.5	25.5	20.5	20.0	20.5
8	17.5	17.0	17.0	26.5	25.0	26.0	24.5	23.0	23.5	21.0	20.0	20.5
9	19.0	16.5	17.5	28.0	25.5	26.5	25.5	23.5	24.0	21.5	20.5	21.0
10	20.5	16.5	18.0	27.5	26.0	27.0	25.5	24.0	25.0	21.0	19.5	20.0
11	21.5	17.0	19.0	27.5	26.5	27.0	27.0	24.5	25.5	20.0	19.0	19.5
12	20.0	18.0	19.0	27.0	24.5	25.5	28.0	25.0	26.5	20.0	19.5	20.0
13	19.5	18.5	19.0	25.5	24.5	25.0	28.5	26.5	27.5	20.0	18.5	19.5
14	19.0	18.5	18.5	26.0	24.5	25.0	28.5	26.5	28.0	19.5	17.5	18.5
15	20.5	18.5	19.5	26.5	24.0	25.5	28.5	26.5	27.0	19.0	17.0	18.0
16	20.5	19.0	20.0	28.5	24.0	24.5	27.0	26.0	27.0	19.0	17.0	18.0
17	21.5	20.0	20.5	29.0	26.5	27.5	26.0	25.0	25.5	20.0	17.5	18.5
18	22.5	20.0	21.0	30.0	27.0	28.5	25.5	25.0	25.0	20.5	19.0	19.5
19	24.5	20.5	22.5	30.0	27.5	28.5	25.5	25.0	25.5	19.5	18.5	19.0
20	25.0	23.0	24.0	29.5	27.5	28.5	25.0	24.5	24.5	19.5	18.5	19.0
21	26.0	22.5	24.0	30.5	27.5	29.0	24.5	23.0	24.0	20.5	19.0	19.5
22	25.5	22.0	24.0	31.0	27.0	29.0	25.0	24.5	24.5	21.5	17.5	19.5
23	26.5	21.5	23.5	30.5	27.5	29.0	25.0	22.5	24.0	20.0	18.5	19.0
24	27.5	23.0	25.0	30.0	27.5	28.5	23.5	22.0	23.0	19.0	17.5	18.5
25	27.5	25.0	26.5	29.5	27.0	28.0	22.0	21.5	22.0	17.5	16.5	17.0
26	27.0	25.5	26.5	28.5	26.5	27.5	23.5	22.0	23.0	17.0	16.0	16.5
27	26.5	24.0	25.0	28.0	25.5	27.0	24.0	22.5	23.0	18.0	17.0	17.5
28	25.0	23.5	24.0	27.5	25.0	26.0	24.0	23.5	24.0	18.0	17.0	17.5
29	25.5	23.5	24.5	28.5	25.0	27.0	24.0	23.0	23.5	18.0	16.5	17.0
30	25.5	23.5	24.5	29.0	26.0	27.0	23.5	22.5	23.0	18.5	16.5	17.0
31	---	---	---	29.0	26.0	27.5	22.0	20.0	21.0	---	---	---
MONTH	27.5	16.5	21.5	31.0	21.0	26.5	31.0	20.0	25.5	21.5	16.0	19.0
YEAR	31.0	0.0	15.5									

01127500 YANTIC RIVER AT YANTIC, CONN.

LOCATION.--Lat 41°33'31", long 72°07'19", New London County, on left bank at Yantic, 700 ft (213 m) downstream from stone-arch highway bridge, 1 mi (2 km) downstream from Susquetonscut Brook, and 4.8 mi (7.7 km) upstream from mouth.

DRAINAGE AREA.--90.0 mi^2 (233.1 km^2).

PERIOD OF RECORD.--Discharge: October 1930 to current year.
Chemical analyses: October 1957 to September 1958, June 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 94.46 ft (28.791 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 159 ft^3/s (4.503 m^3/s), 23.99 in/yr (609 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,870 ft^3/s (53.0 m^3/s) Apr. 3, gage height, 7.14 ft (2.176 m); minimum, 3.6 ft^3/s (0.10 m^3/s) Aug. 28, 29, gage height, 0.65 ft (0.198 m).

Period of record: Maximum discharge, 13,500 ft^3/s (382 m^3/s) Sept. 21, 1938, gage height, 14.66 ft (4.468 m), from floodmark, by computation of flow over two dams 2.4 mi (4.0 km) upstream and 3.0 mi (4.8 km) downstream from station, respectively; minimum, 2.2 ft^3/s (0.062 m^3/s) Aug. 30, 1963; minimum gage height, 0.41 ft (0.012 m^3/s) Oct. 13, 1930; minimum daily discharge, 2.3 ft^3/s (0.065 m^3/s) Aug. 30, 1963.

PEAK DISCHARGE.--(BASE, 1,000 ft^3/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-02	1600	5.44	1,100	03-20	0800	6.85	1,720
12-09	0100	5.26	1,020	04-03	1900	7.14	1,870
02-25	1100	5.71	1,200	09-27	1100	5.60	1,160

REMARKS.--Records excellent. Low flow regulated by mills upstream. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	139	51	199	199	274	236	114	65	66	19	21
2	66	113	563	221	172	243	194	153	68	41	18	18
3	50	84	642	161	147	208	817	179	54	33	17	15
4	36	77	355	144	125	171	1190	168	51	30	18	13
5	34	68	208	131	126	154	659	289	48	27	22	11
6	31	95	148	107	140	153	438	230	204	25	23	11
7	28	79	129	180	142	155	337	227	181	31	34	9.8
8	26	66	266	219	133	185	277	204	103	27	39	9.0
9	24	56	834	570	133	152	239	160	81	24	41	8.9
10	23	51	505	694	131	125	211	141	68	26	31	8.0
11	22	53	308	507	130	129	190	131	54	26	27	7.8
12	20	44	229	526	130	163	173	120	84	109	24	12
13	20	92	188	597	130	250	158	231	547	139	21	23
14	19	101	168	771	125	211	145	410	419	138	19	18
15	19	76	151	472	125	187	140	291	251	133	17	15
16	175	64	177	329	123	195	135	324	170	113	16	14
17	371	54	712	246	122	233	128	322	147	72	16	13
18	216	56	474	281	136	231	117	218	133	53	16	12
19	130	50	305	672	171	218	128	169	107	42	15	12
20	84	57	231	573	228	1430	128	157	80	36	17	13
21	68	194	194	370	230	939	115	120	61	76	15	19
22	58	163	185	311	224	519	103	103	51	59	15	31
23	55	108	170	260	302	384	97	94	45	40	14	100
24	45	86	159	231	674	316	135	92	39	33	15	250
25	47	79	165	352	1110	347	296	106	36	45	5.0	477
26	56	79	160	686	725	296	357	75	34	56	4.3	330
27	53	73	150	468	435	227	252	73	32	38	4.2	742
28	46	57	150	317	318	192	179	62	31	33	3.8	483
29	42	64	134	310	---	184	146	53	65	28	6.2	248
30	44	54	151	333	---	269	126	43	140	24	28	149
31	87	---	165	258	---	302	---	45	---	21	32	---
TOTAL	2124	2432	8427	11496	6886	9042	7846	5104	3449	1644	592.5	3093.5
MEAN	68.5	81.1	272	371	246	292	262	165	115	53.0	19.1	103
MAX	371	194	834	771	1110	1430	1190	410	547	139	41	742
MIN	19	44	51	107	122	125	97	43	31	21	3.8	7.8
CFSM	.76	.90	3.02	4.12	2.73	3.24	2.91	1.83	1.28	.59	.21	1.14
IN.	.88	1.01	3.48	4.75	2.85	3.74	3.24	2.11	1.43	.68	.24	1.28

CAL YR 1974 TOTAL 66162.9 MEAN 181 MAX 2150 MIN 5.9 CFSM 2.01 IN 27.35
WTR YR 1975 TOTAL 62136.0 MEAN 170 MAX 1430 MIN 3.8 CFSM 1.89 IN 25.68

01127500 YANTIC RIVER AT YANTIC, CONN.--continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
15...	1245	20	7.8	24.0	14.5	11.9	115	6.2	0	140	10	20
NOV.												
12...	0940	45	7.1	12.0	8.0	11.9	100	8.9	10	160	30	0
DEC.												
03...	1310	620	6.6	3.0	3.5	13.4	100	6.4	0	130	40	10
JAN.												
07...	1440	200	6.9	2.5	2.0	14.0	101	8.1	0	100	30	10
FEB.												
04...	1540	145	6.9	-3.5	1.0	14.6	104	7.8	0	100	30	10
MAR.												
10...	1145	330	6.8	1.0	2.0	14.1	101	6.8	0	90	20	10
APR.												
15...	1045	140	6.8	13.0	7.5	12.9	108	5.8	0	140	30	10
MAY												
07...	1150	240	6.9	18.5	13.0	11.2	106	5.5	0	120	20	0
JUNE												
11...	1130	53	7.0	26.0	17.5	10.0	104	8.1	0	250	30	10
JULY												
07...	1510	42	6.5	25.0	23.5	8.9	103	4.3	10	190	70	20
AUG.												
18...	1515	16	7.5	28.0	24.5	8.3	99	5.3	0	150	20	0
SEP.												
08...	1610	8.8	7.5	24.0	21.5	--	--	4.4	10	90	20	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
15...	9.2	1.5	20	0	16	16	13	.00	.32	.15	.19	.23
NOV.												
12...	9.5	2.2	18	0	15	14	12	.01	.37	.10	.13	.29
DEC.												
03...	8.5	11	8	0	7	22	6.2	.01	.36	.11	.14	.51
JAN.												
07...	7.0	1.6	11	0	9	12	9.6	.00	.55	.03	.04	.18
FEB.												
04...	6.3	1.5	9	0	7	11	8.6	.00	.69	.01	.01	.22
MAR.												
10...	6.3	1.2	10	0	8	12	12	.01	.65	.04	.05	.15
APR.												
15...	7.0	1.3	10	0	8	9.4	8.6	.01	.63	.03	.04	.11
MAY												
07...	6.0	.9	12	0	10	9.8	8.4	.00	.24	.00	.00	.23
JUNE												
11...	7.5	1.3	18	0	15	8.0	10	.01	.49	.01	.01	.40
JULY												
07...	7.0	1.3	23	0	19	10	13	.01	.48	.10	.13	.71
AUG.												
18...	11	1.8	28	0	23	8.9	11	.00	.50	.01	.01	.24
SEP.												
08...	12	1.0	26	0	21	11	14	.01	.36	.00	.00	.10

01127500 YANTIC RIVER AT YANTIC, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
15...	.08	.55	2.4	.01	84	82	4.43	.11	29	13	114	20
NOV.												
12...	.19	.66	2.9	.01	81	76	9.23	.10	33	18	110	30
DEC.												
03...	.40	.87	3.9	.07	68	204	342	.28	67	60	80	30
JAN.												
07...	.15	.73	3.2	.02	84	48	25.9	.07	24	15	90	10
FEB.												
04...	.21	.91	4.0	.01	64	54	21.1	.07	22	15	87	20
MAR.												
10...	.11	.80	3.5	.04	81	70	62.4	.10	21	12	82	10
APR.												
15...	.08	.74	3.3	.02	68	57	21.5	.08	23	15	80	4
MAY												
07...	.23	.47	2.1	.02	60	57	36.9	.08	19	9	80	19
JUNE												
11...	.39	.89	3.9	.04	65	60	8.59	.08	24	9	89	32
JULY												
07...	.61	1.2	5.3	.13	88	69	7.82	.09	23	4	91	17
AUG.												
18...	.23	.74	3.3	.03	82	77	3.33	.10	35	12	116	11
SEP.												
08...	.10	.46	2.0	.01	106	87	2.07	.12	34	13	127	1

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
15...	1	.5	3500	140	22	4.5	0	.0	15	2.0	--
NOV.											
12...	1	2.3	1800	150	48	5.6	0	.0	2.0	1.0	0
DEC.											
03...	4	3.2	6500	3700	14000	11	0	.0	2.5	.0	--
JAN.											
07...	2	2.2	2200	140	56	4.0	0	.0	1.5	1.0	--
FEB.											
04...	1	1.8	824	9	3	2.4	0	.0	.0	.0	--
MAR.											
10...	1	2.5	77	41	3	3.8	0	.0	.7	.7	--
APR.											
15...	1	2.5	1800	300	44	3.0	0	.0	.0	.0	--
MAY											
07...	1	2.4	660	220	40	4.4	0	.1	.0	.0	--
JUNE											
11...	3	2.9	580	170	160	5.7	0	.0	.0	.0	--
JULY											
07...	3	12	873000	16000	10000	7.4	0	.1	.0	.0	--
AUG.											
18...	1	1.4	1400	160	120	5.5	0	.1	.0	.0	--
SEP.											
08...	1	1.3	2000	200	220	5.0	0	.0	.0	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01127500 YANTIC RIVER AT YANTIC, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 15...	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 15...	0	0	.0	.0	.0	.0	.0	.0	.0	0	0	1

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 15...	100	2.1	23600	5	0	4	2	860	7	76	.1	5

01127701 THAMES RIVER NEAR MOHEGAN, CONN.

LOCATION.--Lat 41°28'54", long 72°04'32", New London County, at bridge on State Highway 2A, 1.3 mi (2.1 km) east of Mohegan.

DRAINAGE AREA.--1,382 mi^2 (3,579 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1963, July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH (FT)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.												
22...	1015	1.0	7.2	11.0	7.5	10.9	92	6.3	0	160	20	30
22...	1030	20	7.8	11.0	15.0	4.8	53	1.6	40	120	20	90
NOV.												
19...	0935	1.0	7.2	12.0	5.5	11.3	90	7.2	10	130	30	30
19...	0950	24	7.8	12.0	12.0	6.5	60	1.4	50	310	60	30
DEC.												
03...	0935	1.0	7.2	3.5	3.5	13.1	100	6.6	0	160	40	20
03...	0950	20	7.8	3.5	6.0	9.9	89	2.5	30	180	50	20
JAN.												
08...	1305	1.0	7.2	10.5	2.5	13.1	99	7.0	0	90	20	20
08...	1315	21	7.8	10.5	6.0	7.9	76	1.5	40	250	50	20
FEB.												
04...	0935	2.0	7.3	-8.0	1.0	13.2	96	6.6	0	80	30	20
MAR.												
17...	0950	1.0	7.3	7.5	3.5	13.1	100	5.9	10	80	30	10
17...	1000	25	7.9	7.5	4.5	8.6	78	1.1	40	120	40	30
APR.												
22...	1000	1.0	7.3	10.5	9.0	9.9	87	4.5	10	80	40	10
22...	1010	20	7.9	10.5	10.0	8.8	86	.8	50	120	40	20
MAY												
20...	1005	1.0	7.1	27.5	19.0	8.4	90	4.2	0	200	30	0
20...	1015	24	7.5	27.5	16.5	6.0	70	1.1	40	140	60	20
JUNE												
23...	1020	1.0	7.5	26.0	23.5	8.6	100	4.9	10	130	50	10
23...	1030	25	7.3	26.0	21.0	2.5	45	2.5	40	140	90	30
JULY												
08...	1000	1.0	7.3	21.5	21.0	5.1	85	3.6	10	30	30	10
08...	1005	25	7.3	21.5	20.0	2.9	54	2.2	50	250	100	30
AUG.												
19...	0915	1.0	7.7	22.5	21.5	9.2	100	2.6	20	30	50	10
19...	0920	25	7.1	22.5	21.0	3.6	39	.9	40	100	60	30
SEP.												
09...	1415	1.0	8.2	22.5	22.0	--	--	.7	50	110	50	30
09...	1440	25	7.9	22.5	20.5	--	--	2.1	20	30	50	20

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
22...	230	140	26	0	21	300	2100	.00	.22	.31	.40	.57
22...	230	1000	124	0	102	2400	16000	.00	.15	.27	.35	.36
NOV.												
19...	39	130	27	0	22	260	1800	.00	.38	.25	.32	.46
19...	340	950	119	0	98	2200	16000	.00	.16	.20	.26	.47
DEC.												
03...	27	75	16	0	13	150	930	.01	.43	.21	.27	.36
03...	260	780	78	0	64	1700	12000	.01	.23	.17	.22	.44
JAN.												
08...	52	160	28	0	23	340	2300	.00	.45	.14	.18	.43
08...	310	1100	116	0	95	2100	16000	.00	.16	.16	.21	.39
FEB.												
04...	51	140	27	0	22	320	2300	--	.47	.08	.10	.29
MAR.												
17...	40	120	29	0	24	250	1700	.00	.47	.10	.13	.28
17...	300	1000	120	0	98	2200	16000	.00	.13	.19	.24	.54
APR.												
22...	45	110	28	0	23	290	2000	.00	.44	.11	.14	.23
22...	310	900	114	0	94	2200	16000	.00	.10	.10	.13	.34
MAY												
20...	19	51	28	0	23	96	690	.00	.27	.07	.09	.38
20...	200	770	118	0	97	2100	16000	.00	.08	.23	.30	.42
JUNE												
23...	36	230	30	0	25	190	1400	.01	.38	.04	.05	.58
23...	290	100	116	0	95	1900	15000	.01	.06	.58	.75	.85
JULY												
08...	12	150	44	0	36	330	2400	.01	.19	.31	.40	.76
08...	340	1000	130	0	107	2200	17000	.01	.00	.57	.73	.61
AUG.												
19...	140	440	69	0	57	870	6400	.01	.00	.20	.26	.85
19...	320	1100	120	0	98	2200	16000	.00	.01	.22	.28	.46
SEP.												
09...	310	1000	120	0	98	2000	15000	.01	.04	.02	.03	.51
09...	190	450	83	0	68	930	6800	.01	.15	.13	.17	.95

01127701 THAMES RIVER NEAR MOHEGAN, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DEPTH (FT)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	SALINITY (PPT)
OCT.												
22...	1.0	.26	.79	3.5	.07	4160	3830	5.21	1200	1100	5100	4.0
22...	20	.09	.51	2.3	.09	33500	29200	39.7	4700	4600	34000	29
NOV.												
19...	1.0	.21	.84	3.7	.10	3500	3360	4.57	630	610	4200	4.0
19...	24	.27	.63	2.8	.13	33600	30100	40.9	4800	4700	31000	30
DEC.												
03...	1.0	.15	.79	3.5	.08	2140	2000	27.2	380	360	3600	2.0
03...	20	.27	.67	3.0	.08	21700	23200	31.6	3900	3800	23100	19
JAN.												
08...	1.0	.29	.88	3.9	.05	4480	4510	6.13	790	770	5200	5.0
08...	21	.23	.55	2.4	.08	32900	29700	40.4	5300	5200	29200	28
FEB.												
04...	2.0	.21	.76	3.4	.05	4770	4210	5.73	700	680	4300	4.0
MAR.												
17...	1.0	.18	.75	3.3	.05	3520	3320	4.52	590	570	3200	3.5
17...	25	.35	.67	3.0	.09	31300	29600	40.3	4900	4800	25500	27
APR.												
22...	1.0	.12	.67	3.0	.07	4060	3930	5.34	570	540	4800	3.0
22...	20	.24	.44	1.9	.07	31700	29400	40.0	4500	4400	28000	17
MAY												
20...	1.0	.31	.65	2.9	.07	1420	1330	1.81	260	230	2000	1.5
20...	24	.19	.50	2.2	.09	30400	29500	40.1	3700	3600	29000	21
JUNE												
23...	1.0	.54	.96	4.3	.10	2830	2660	3.62	1000	1000	5300	3.0
23...	25	.27	.91	4.0	.22	29100	28400	38.6	1100	1000	32000	21
JULY												
08...	1.0	.45	.95	4.2	.16	5270	4610	6.27	650	610	7600	4.2
08...	25	.04	.61	2.7	.25	33100	31200	42.4	5000	4900	40200	26
AUG.												
19...	1.0	.65	.85	3.8	.13	12200	12600	17.1	2200	2100	14500	8.8
19...	25	.24	.47	2.1	.11	31800	31100	42.3	5300	5200	39500	28
SEP.												
09...	1.0	.49	.55	2.4	.06	11500	11000	15.0	4900	4800	21200	10
09...	25	.82	1.1	4.9	.14	15200	14600	19.9	2300	2300	39200	28

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.												
22...	20	1	2.6	30000	3000	400	4.0	0	.0	.3	.0	--
22...	2	2	3.1	1200	41	4	14	1	.1	.0	.0	--
NOV.												
19...	30	2	2.7	76000	3200	500	5.6	0	.3	.0	.0	0
19...	6	8	3.0	820	53	6	5.7	0	.1	3.0	1.5	0
DEC.												
03...	40	3	1.6	16000	1800	1200	6.9	0	.2	1.5	.0	--
03...	7	2	2.0	3600	410	260	3.2	0	.1	.5	.0	--
JAN.												
08...	4	2	2.8	14000	1200	200	4.8	0	.0	.5	.0	--
08...	2	5	2.9	920	50	6	4.2	0	.0	1.5	.0	--
FEB.												
04...	20	2	2.2	14000	1000	220	5.8	0	.2	.0	.0	--
MAR.												
17...	9	2	2.3	8400	880	300	3.4	0	.2	.0	.0	--
17...	4	2	2.4	410	30	16	2.1	0	.0	.0	.0	--
APR.												
22...	15	3	2.2	5500	1000	92	3.9	0	.2	--	--	--
22...	4	1	2.3	230	24	<1	2.8	0	.1	--	--	--
MAY												
20...	20	2	3.6	41000	2000	50	7.6	0	.2	7.7	.0	--
20...	2	2	6.0	1300	52	2	3.0	0	.2	.0	.0	--
JUNE												
23...	33	3	1.5	110000	8600	54	6.6	0	.2	16	.0	--
23...	7	3	9.3	7200	100	1	5.6	0	.1	.0	.0	--
JULY												
08...	17	2	3.5	120000	6200	920	7.1	0	.1	23	.0	--
08...	2	3	10	700	43	11	3.3	0	.1	.0	.0	--
AUG.												
19...	10	3	2.2	22000	850	30	6.8	0	.0	47	.0	--
19...	2	3	15	64	8	<1	3.0	0	.0	.0	.0	--
SEP.												
09...	1	3	1.2	200	410	4	7.9	0	.0	4.7	.0	--
09...	2	3	1.7	3600	6	3	3.8	0	.2	32	.0	--

01127701 THAMES RIVER NEAR MOHEGAN, CONN.--continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 22...	.0	36	8.6	.0	1.9	14	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 22...	0	0	.0	.0	.0	.0	.0	.0	.0	180	4	13

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 22...	100	4.1	116000	11	3	100	100	16000	130	130	.3	140

RESERVOIRS IN THAMES RIVER BASIN

01119259. STAFFORDVILLE RESERVOIR.--Lat 41°59'46", long 72°15'37", Tolland County, Conn., on Furnace Brook in Willimantic River basin, at Staffordville. Drainage area, 8.34 mi^2 (21.60 km^2). Usable capacity, 75,500,000 ft^3 (2,140,000 m^3), based on reservoir survey by Connecticut Board of Fisheries and Game. Records available, September 1960 to current year. Dam was rebuilt after 1886 flood for storage of water for power and industrial supply.

01121500. MANSFIELD HOLLOW LAKE.--Lat 41°45'22", long 72°10'57", Tolland County, Conn., on Natchaug River at Mansfield Hollow, 3.5 mi (5.6 km) northeast of Willimantic. Drainage area, 160 mi^2 (414 km^2). Usable capacity, 2,260,000,000 ft^3 (64,000,000 m^3), including 90,000,000 ft^3 (3,000,000 m^3) storage in recreation pool. Records available, March 1952 to current year. Completed in 1952 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.

01123350. EAST BRIMFIELD LAKE.--Lat 42°06'32", long 72°07'35", Worcester County, Mass., on Quinebaug River, 0.7 mi (1.1 km) southeast of Fiskdale, 1.2 mi (1.9 km) east of East Brimfield. Drainage area, 67.5 mi^2 (174.8 km^2). Usable capacity, 1,400,000,000 ft^3 (40,000,000 m^3), including 83,000,000 ft^3 (2,400,000 m^3) storage in recreation and conservation pool. Records available, July 1960 to current year. Completed in 1960 by Corps of Engineers for storage of water for recreation, conservation, and flood control. Records furnished by Corps of Engineers.

01123550. WESTVILLE LAKE.--Lat 42°04'55", long 72°03'28", Worcester County, Mass., on Quinebaug River, 1.3 mi (2.1 km) west of Southbridge. Drainage area, 99.1 mi^2 (256.7 km^2). Usable capacity, 484,000,000 ft^3 (13,700,000 m^3), including 4,400,000 ft^3 (120,000 m^3) storage in recreation pool. Records available, February 1962 to current year. Completed in 1962 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.

01124150. WEST THOMPSON LAKE.--Lat 41°56'40", long 71°54'00", Windham County, Conn., on Quinebaug River above mouth of French River, at West Thompson. Drainage area, 172 mi^2 (445 km^2). Usable capacity, 1,170,000,000 ft^3 33.1 hm^3), including 52,000,000 ft^3 (1,500,000 m^3) storage in recreation pool. Records available, July 1965 to current year. Completed in 1965 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.

01124300. HODGES VILLAGE RESERVOIR.--Lat 42°07'09", long 71°52'51", Worcester County, Mass., on French River at Hodges Village. Drainage area, 31.1 mi^2 (80.5 km^2). Usable capacity, 577,000,000 ft^3 (16,300,000 m^3). Records available, February 1960 to current year. Completed in 1960 by Corps of Engineers for storage of water for flood control. Records furnished by Corps of Engineers.

01124400. BUFFUMVILLE LAKE.--Lat 42°06'58", long 71°54'29", Worcester County, Mass., on Little River in French River basin, at Buffumville, 2.2 mi (3.5 km) west of Oxford. Drainage area, 26.5 mi^2 (68.6 km^2). Usable capacity, 555,000,000 ft^3 (15,700,000 m^3), including 61,000,000 ft^3 (1,700,000 m^3) storage in recreation pool. Records available, September 1958 to current year. Completed in 1958 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.

Month-end usable contents, in millions of cubic feet, water year October 1974 to September 1975

Date	Staffordville Reservoir	Mansfield Hollow Lake	East Brimfield Lake	Westville Lake
Sept. 30, 1974.....	75.5	124.7	124.4	9.9
Oct. 31.....	73.1	90.6	111.0	5.8
Nov. 30.....	68.8	52.8	111.0	5.4
Dec. 31.....	75.5	59.5	112.6	6.0
Jan. 31, 1975.....	75.5	55.5	117.6	6.7
Feb. 28.....	75.5	40.5	124.4	6.7
Mar. 31.....	75.5	67.1	117.6	6.8
Apr. 30.....	74.7	130.7	111.0	5.7
May 31.....	73.6	151.6	107.7	5.0
June 30.....	75.5	122.8	102.7	4.7
July 31.....	68.1	118.8	104.4	4.7
Aug. 31.....	52.1	118.8	104.4	4.7
Sept. 30.....	75.5	36.0	150.7	13.5

Date	West Thompson Lake	Hodges Village Reservoir	Buffumville Lake
Sept. 30, 1974.....	106.3	9.1	79.1
Oct. 31.....	75.3	1.2	43.8
Nov. 30.....	68.0	.8	66.2
Dec. 31.....	73.2	1.2	68.8
Jan. 31, 1975.....	80.5	1.5	72.4
Feb. 28.....	79.5	2.1	72.4
Mar. 31.....	80.5	1.3	71.4
Apr. 30.....	69.0	.7	66.2
May 31.....	60.7	.6	67.1
June 30.....	56.5	.5	61.0
July 31.....	56.5	.4	60.1
Aug. 31.....	59.6	.6	56.6
Sept. 30.....	138.8	1.9	66.2

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.

LOCATION.--Lat 42°02'57", long 72°36'35", Hampden County, on right bank at Agawam, Mass., 1.4 mi (2.3 km) upstream from Massachusetts-Connecticut State line, and 4.5 mi (7.2 km) upstream from gaging station at Thompsonville, Conn.

DRAINAGE AREA.--9,661 mi^2 (25,022 km^2) at gage at Thompsonville, Conn.

PERIOD OF RECORD.--Chemical analyses: January 1969 to current year (no summer record in water year 1975).
Water temperatures: January 1969 to current year (no summer record in water year 1975).
Prior to October 1971, published as 01184000 Connecticut River at Thompsonville, Conn.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	113	109	112	125	120	122	107	100	104	124	102	110
2	112	103	106	125	118	121	121	105	112	127	113	124
3	111	105	108	131	117	125	119	91	105	113	106	109
4	118	111	114	131	121	125	92	88	90	109	105	107
5	120	117	118	130	108	123	100	89	95	110	106	108
6	120	117	118	107	87	98	104	95	100	110	104	107
7	125	120	122	94	85	90	110	99	105	122	104	110
8	124	120	122	104	93	97	111	104	108	129	113	120
9	125	116	122	106	98	102	101	57	72	133	119	126
10	125	115	120	111	106	109	74	56	63	137	116	126
11	124	113	118	117	110	114	80	76	78	116	111	113
12	124	115	119	115	111	113	91	80	86	109	83	96
13	130	117	122	115	103	111	94	88	91	90	80	84
14	125	119	121	99	78	89	94	90	92	94	85	89
15	127	119	124	94	84	90	92	89	90	92	87	90
16	125	115	119	96	91	93	95	88	91	108	85	96
17	126	108	119	95	91	93	136	97	120	110	101	106
18	110	104	106	99	95	98	113	93	100	130	105	113
19	107	102	104	106	99	102	95	93	94	160	136	150
20	113	107	109	106	102	104	98	95	96	143	115	132
21	119	111	115	105	72	93	102	97	100	119	105	113
22	113	105	109	75	64	68	101	98	100	112	101	106
23	121	107	115	81	76	79	104	98	101	115	110	112
24	126	120	122	82	80	81	102	98	100	122	112	117
25	122	118	121	82	80	81	100	96	98	131	118	124
26	121	117	119	84	81	83	103	97	100	133	112	125
27	128	118	124	92	82	87	107	102	104	111	97	101
28	128	120	122	96	91	94	107	99	102	102	94	98
29	121	117	120	97	93	95	111	105	108	117	100	108
30	126	120	122	100	96	98	113	108	109	113	104	107
31	125	116	120	---	---	---	107	101	105	105	88	99
MONTH	130	102	117	131	64	99	136	56	97	160	80	111

01183750 CONNECTICUT RIVER AT AGWAM, MASS.--continued

EXTREMES.--Current year: Dissolved oxygen: Maximum recorded, 15.3 mg/l Feb. 27; minimum not determined. Water temperatures: Maximum not determined; minimum, freezing point on Jan. 16.

Period of record: Specific conductance (1969-74): Maximum, 268 micromhos Feb. 3, 1973; minimum, 49 micromhos Apr. 23, 1969.
pH (1969-74): Maximum, 9.7 Aug. 9, 1970; minimum, 5.8 Oct. 26, 1971.
Dissolved oxygen: Maximum, 15.9 mg/l Feb. 17, 1971; minimum recorded, 1.0 mg/l Aug. 20, 1971.
Water temperatures (1969-74): Maximum, 31.5°C Aug. 16, 1970; minimum, freezing point on several days during winter periods.

REMARKS.--Figures of daily discharge for gaging station at Thompsonville, Conn. (station 01184000) are used for this site. Samples for previously published monthly chemical analyses were taken at gaging station station at Thompsonville.

SPECIFIC CONDUCTANCE (MICROMHOS/CM at 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975-- continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	105	99	102	100	92	97	93	90	91	85	80	82
2	107	103	105	102	95	99	96	91	94	84	80	82
3	109	106	107	105	100	103	98	82	91	85	81	83
4	115	106	110	105	99	102	---	---	---	81	78	79
5	114	105	110	111	100	106	---	---	---	81	72	78
6	128	110	115	111	108	110	---	---	---	74	71	72
7	131	117	125	113	108	111	---	---	---	76	71	73
8	121	118	119	112	108	111	---	---	---	79	72	75
9	125	118	120	115	111	113	---	---	---	82	77	79
10	135	125	129	122	115	118	---	---	---	85	80	82
11	128	118	125	133	121	127	---	---	---	87	82	85
12	121	117	119	136	123	128	---	---	---	93	86	89
13	133	116	124	128	115	122	---	---	---	95	79	91
14	133	128	131	116	112	114	---	---	---	76	60	68
15	136	130	133	153	115	128	---	---	---	75	61	67
16	147	135	140	151	130	143	---	---	---	86	75	79
17	142	134	138	129	120	126	89	84	87	87	82	84
18	163	135	145	125	118	121	89	83	86	88	85	86
19	175	156	163	118	110	116	88	82	85	93	89	92
20	154	138	146	115	59	83	83	72	75	100	94	97
21	138	133	135	73	61	67	77	73	75	101	97	99
22	131	121	127	72	60	66	76	71	73	99	94	97
23	133	127	131	74	66	70	77	72	75	100	98	99
24	133	107	125	71	62	68	79	75	76	106	100	103
25	104	73	81	72	63	68	76	72	74	109	105	107
26	74	69	73	67	61	63	73	70	72	112	105	108
27	85	75	81	78	68	75	72	69	70	116	110	114
28	93	81	88	91	77	84	75	69	72	---	---	---
29	---	---	---	97	88	94	79	73	76	111	109	110
30	---	---	---	96	91	93	81	76	79	112	108	109
31	---	---	---	93	85	89	---	---	---	111	104	108
MONTH	175	69	120	153	59	100	---	---	---	116	60	89

01183750 CONNECTICUT RIVER AT AGWAM, MASS.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM at 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975-- continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	113	103	107	---	---	---	---	---	---	---	---	---
2	106	102	105	---	---	---	---	---	---	---	---	---
3	107	104	106	---	---	---	---	---	---	---	---	---
4	112	104	109	---	---	---	---	---	---	---	---	---
5	103	92	97	---	---	---	---	---	---	---	---	---
6	93	86	90	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	175	56	103									

PH (UNITS) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.7	6.8	6.7	6.7	6.8	6.8	6.8	6.9	6.8	6.8
2	6.8	6.7	6.8	6.8	6.7	6.7	6.8	6.7	6.8	6.8	6.7	6.8
3	6.9	6.7	6.8	6.8	6.6	6.7	6.8	6.7	6.7	6.8	6.8	6.8
4	6.9	6.7	6.8	6.7	6.6	6.6	6.8	6.7	6.7	6.9	6.8	6.8
5	6.9	6.8	6.8	6.7	6.6	6.7	6.8	6.7	6.8	6.8	6.7	6.8
6	6.9	6.7	6.8	6.8	6.7	6.7	6.8	6.7	6.8	6.8	6.7	6.8
7	6.8	6.6	6.7	6.7	6.7	6.7	6.9	6.8	6.8	6.8	6.8	6.8
8	6.8	6.7	6.7	6.8	6.7	6.7	7.0	6.8	6.9	6.9	6.8	6.8
9	6.8	6.6	6.7	6.8	6.7	6.8	6.9	6.6	6.7	6.9	6.8	6.8
10	6.7	6.7	6.7	6.8	6.7	6.7	6.9	6.6	6.8	6.9	6.8	6.8
11	6.8	6.7	6.7	6.8	6.7	6.7	7.0	7.0	7.0	6.9	6.8	6.8
12	6.8	6.7	6.7	6.8	6.7	6.7	7.1	7.0	7.1	6.8	6.8	6.8
13	6.7	6.6	6.6	6.8	6.7	6.8	7.0	6.9	7.0	6.8	6.7	6.7
14	6.7	6.6	6.7	6.9	6.7	6.8	6.9	6.9	6.9	6.8	6.7	6.8
15	6.8	6.6	6.7	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.8	6.8
16	6.7	6.6	6.7	6.8	6.7	6.8	6.8	6.8	6.8	7.0	6.8	6.8
17	6.9	6.7	6.8	6.8	6.7	6.8	6.8	6.7	6.7	6.9	6.8	6.9
18	6.9	6.9	6.9	6.8	6.8	6.8	6.7	6.7	6.7	6.9	6.8	6.9
19	6.9	6.8	6.9	6.8	6.7	6.8	6.7	6.6	6.7	6.9	6.8	6.8
20	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.6	6.7	6.9	6.8	6.8
21	6.9	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.7	6.9	6.8	6.8
22	6.9	6.8	6.9	6.8	6.6	6.7	6.7	6.7	6.7	7.1	6.8	6.9
23	6.9	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.7	7.1	7.0	7.0
24	6.9	6.7	6.8	6.8	6.8	6.8	6.7	6.6	6.7	7.0	6.9	7.0
25	6.8	6.8	6.8	6.8	6.7	6.8	6.8	6.7	6.7	7.0	6.9	7.0
26	6.8	6.7	6.8	6.8	6.6	6.8	6.8	6.7	6.7	7.1	7.0	7.1
27	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.7	6.7	7.1	7.0	7.1
28	6.8	6.6	6.7	6.8	6.7	6.8	6.9	6.8	6.8	7.1	7.0	7.1
29	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.1	7.0	7.1
30	6.8	6.7	6.7	6.8	6.8	6.8	6.8	6.7	6.7	7.2	7.0	7.1
31	6.8	6.6	6.6	---	---	---	6.8	6.8	6.8	7.2	7.1	7.2
MONTH	6.9	6.6	6.8	6.9	6.6	6.8	7.1	6.6	6.8	7.2	6.7	6.9

01183750 CONNECTICUT RIVER AT AGWAM, MASS.--continued

PH (UNITS) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	7.1	7.1	7.1	7.0	7.0	---	---	---	6.8	6.7	6.7
2	7.2	7.1	7.1	7.1	7.1	7.1	---	---	---	6.8	6.7	6.7
3	7.2	7.1	7.1	7.1	7.1	7.1	---	---	---	6.8	6.7	6.7
4	7.1	7.1	7.1	7.2	7.1	7.1	---	---	---	6.8	6.7	6.7
5	7.2	7.1	7.1	7.1	7.0	7.1	---	---	---	6.8	6.7	6.7
6	7.3	7.1	7.2	7.2	7.1	7.1	---	---	---	6.8	6.7	6.7
7	7.4	7.3	7.3	7.2	7.1	7.1	---	---	---	6.7	6.6	6.7
8	7.4	7.3	7.4	7.2	7.1	7.1	---	---	---	6.8	6.6	6.7
9	7.4	7.3	7.4	7.2	7.2	7.2	---	---	---	6.7	6.6	6.7
10	7.4	7.2	7.3	7.2	7.1	7.2	---	---	---	6.7	6.6	6.7
11	7.4	7.3	7.3	7.2	7.1	7.2	---	---	---	6.7	6.6	6.6
12	7.3	7.3	7.3	7.2	7.1	7.2	---	---	---	6.8	6.5	6.7
13	7.3	7.1	7.2	7.3	7.1	7.1	---	---	---	6.8	6.7	6.8
14	7.2	7.1	7.1	7.2	7.1	7.2	---	---	---	6.8	6.7	6.7
15	7.2	7.1	7.1	7.3	7.2	7.2	---	---	---	6.9	6.7	6.8
16	7.2	7.1	7.1	7.3	7.1	7.2	---	---	---	6.9	6.7	6.8
17	7.2	7.1	7.1	7.2	7.0	7.1	6.8	6.7	6.8	6.9	6.7	6.8
18	7.2	7.1	7.1	7.2	6.8	7.0	6.9	6.7	6.8	6.9	6.8	6.8
19	7.3	7.2	7.2	6.9	6.7	6.7	6.9	6.8	6.8	6.8	6.7	6.8
20	7.3	7.2	7.3	6.9	6.3	6.6	6.9	6.8	6.8	6.8	6.6	6.7
21	7.3	7.3	7.3	6.7	6.5	6.7	6.9	6.8	6.8	6.8	6.6	6.7
22	7.3	7.2	7.2	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.7	6.8
23	7.2	7.2	7.2	6.9	6.9	6.9	6.8	6.8	6.8	6.9	6.7	6.8
24	7.2	7.1	7.2	7.0	6.9	7.0	6.8	6.7	6.8	7.1	6.8	6.9
25	7.1	7.0	7.0	7.1	7.0	7.1	6.9	6.8	6.8	7.1	6.9	7.0
26	7.1	6.9	7.0	7.1	7.1	7.1	6.9	6.8	6.8	7.2	7.0	7.1
27	7.2	7.0	7.1	7.4	7.2	7.3	6.9	6.8	6.8	7.2	7.1	7.1
28	7.1	7.0	7.0	---	---	---	6.9	6.8	6.8	---	---	---
29	---	---	---	---	---	---	6.8	6.8	6.8	7.0	6.8	6.9
30	---	---	---	---	---	---	6.8	6.7	6.8	6.9	6.8	6.9
31	---	---	---	---	---	---	---	---	---	6.9	6.8	6.8
MONTH	7.4	6.9	7.2	7.4	6.3	7.1	---	---	---	7.2	6.5	6.8

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.8	---	---	---	---	---	---	---	---	---
2	7.0	6.8	6.9	---	---	---	---	---	---	---	---	---
3	6.9	6.8	6.9	---	---	---	---	---	---	---	---	---
4	7.1	6.8	6.9	---	---	---	---	---	---	---	---	---
5	7.0	6.9	7.0	---	---	---	---	---	---	---	---	---
6	6.8	6.8	6.8	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	7.4	6.3	6.9									

01183750 CONNECTICUT RIVER AT AGWAM, MASS.--continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.6	6.7	9.1	8.2	8.8	11.1	10.8	11.0	11.2	10.4	10.7
2	7.6	6.9	7.2	8.3	7.7	8.0	12.9	11.1	11.6	10.4	9.8	10.1
3	8.3	7.5	7.9	8.0	7.6	7.7	13.1	11.4	11.8	11.9	10.2	11.3
4	8.6	7.6	8.2	7.7	7.5	7.6	13.2	11.5	11.7	12.5	11.3	12.1
5	8.7	7.0	7.7	7.5	7.3	7.4	12.8	11.1	11.8	---	---	---
6	8.9	7.4	8.1	7.8	7.3	7.5	12.9	10.0	11.8	---	---	---
7	8.8	8.1	8.4	7.8	7.6	7.7	13.4	10.2	12.6	---	---	---
8	8.2	7.8	8.1	8.4	7.6	8.1	12.7	11.0	12.0	---	---	---
9	8.2	7.8	8.0	8.6	8.2	8.5	11.6	11.1	11.4	---	---	---
10	8.6	7.9	8.1	8.9	8.2	8.6	12.3	11.8	12.0	12.2	10.6	11.3
11	8.5	7.8	8.2	8.5	7.7	8.1	13.0	12.2	12.6	11.8	10.8	11.3
12	8.7	8.1	8.4	8.1	7.6	7.8	12.8	12.1	12.5	11.3	10.9	11.1
13	8.8	7.7	8.2	8.5	7.5	8.0	12.6	11.7	12.2	11.4	11.0	11.1
14	8.3	8.0	8.2	9.2	8.7	8.9	12.0	11.4	11.7	12.0	11.4	11.7
15	8.3	8.1	8.2	9.5	9.1	9.3	12.0	11.5	11.9	12.8	11.7	12.2
16	8.2	8.0	8.1	10.8	9.7	10.2	12.6	11.9	12.3	13.0	11.9	12.5
17	8.8	8.1	8.4	11.8	8.7	10.4	13.7	10.5	12.7	13.6	10.6	12.3
18	9.3	8.5	8.9	10.0	9.2	9.4	13.5	10.5	12.5	13.6	10.7	12.6
19	---	---	---	11.4	9.7	10.5	13.5	10.4	12.4	13.6	12.4	12.8
20	---	---	---	11.4	10.6	11.0	13.4	10.3	11.4	13.4	12.0	12.7
21	7.4	7.0	7.2	11.0	10.5	10.7	13.3	10.3	10.8	13.9	12.3	13.2
22	8.4	7.0	7.6	11.2	8.5	9.2	13.1	12.4	12.8	14.0	10.6	12.6
23	8.1	7.7	7.9	10.8	9.7	10.4	13.1	11.8	12.4	13.4	10.6	11.0
24	7.8	7.1	7.4	11.8	11.2	11.4	12.7	11.9	12.3	13.7	10.9	12.1
25	7.5	7.2	7.3	11.7	10.8	11.2	13.2	10.2	11.0	13.9	11.0	13.2
26	7.7	7.1	7.3	12.2	10.8	11.4	13.1	10.1	10.5	14.0	12.9	13.3
27	8.2	7.3	7.6	12.3	10.1	11.7	10.7	10.1	10.4	14.2	11.2	12.6
28	7.8	6.9	7.4	10.8	10.2	10.4	11.0	10.4	10.6	14.2	11.4	12.7
29	8.4	7.1	7.7	12.4	10.6	11.0	10.9	10.2	10.5	14.1	13.2	13.7
30	7.5	6.8	7.0	11.6	10.6	10.8	13.3	10.0	10.2	14.1	10.4	12.5
31	9.4	6.7	8.1	---	---	---	10.5	10.0	10.3	11.6	10.6	11.0
MONTH	9.4	6.6	7.8	12.4	7.3	9.4	13.7	10.0	11.7	14.2	9.8	12.1

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.4	10.6	11.0	14.6	13.7	14.1	13.3	12.0	12.6	12.0	11.0	11.7
2	11.8	10.7	11.1	15.2	14.1	14.8	12.0	10.9	11.6	11.8	11.2	11.5
3	12.0	10.3	11.0	15.1	12.6	13.8	11.7	10.5	11.0	12.2	11.5	11.8
4	12.5	10.5	11.4	15.1	12.5	13.2	---	---	---	11.8	11.6	11.7
5	12.4	11.2	11.7	15.2	12.6	13.4	---	---	---	11.5	11.1	11.3
6	13.8	11.1	11.8	15.1	12.5	13.2	---	---	---	11.0	10.6	10.8
7	12.6	10.9	11.6	14.9	12.3	13.2	---	---	---	10.7	10.4	10.5
8	12.9	11.8	12.3	14.5	12.7	13.6	---	---	---	10.5	10.2	10.4
9	13.6	12.4	12.7	14.1	11.4	12.3	---	---	---	10.5	9.8	10.2
10	13.6	11.7	12.8	12.5	11.4	11.9	---	---	---	10.5	10.0	10.2
11	14.2	13.0	13.7	13.7	11.3	12.4	---	---	---	10.4	10.0	10.2
12	14.3	9.8	10.3	13.3	10.9	12.2	---	---	---	10.3	8.8	9.7
13	12.3	10.0	11.0	13.0	11.2	12.2	---	---	---	9.4	8.8	9.1
14	13.1	10.4	11.4	12.8	12.2	12.4	---	---	---	9.6	8.7	9.1
15	11.1	10.7	10.9	14.0	12.9	13.5	---	---	---	9.1	8.8	9.0
16	11.2	11.0	11.1	13.9	12.2	13.0	---	---	---	8.9	8.6	8.8
17	13.9	11.2	12.2	12.6	11.6	12.0	12.2	11.0	11.7	9.2	8.6	8.9
18	13.9	11.4	12.2	12.4	11.5	11.9	12.1	11.7	11.9	9.2	8.4	8.8
19	14.3	11.3	13.8	12.3	11.9	12.2	12.5	12.1	12.3	9.1	7.9	8.5
20	14.5	13.4	14.0	12.3	11.5	11.7	12.6	12.3	12.5	8.4	7.9	8.3
21	14.5	11.8	13.4	12.2	11.5	11.8	12.8	12.4	12.6	8.3	7.6	8.0
22	14.7	12.0	12.6	12.3	11.8	12.2	13.2	12.7	13.0	8.1	7.7	8.0
23	14.7	12.2	13.4	12.4	12.1	12.2	13.2	12.4	12.9	8.1	7.1	7.6
24	14.9	13.7	14.2	12.6	12.3	12.4	12.6	11.7	12.2	7.9	7.1	7.4
25	13.3	12.6	12.8	13.3	12.5	12.8	12.3	12.0	12.2	7.4	7.1	7.2
26	13.0	12.7	12.9	13.5	13.2	13.4	12.3	11.5	12.0	7.7	7.1	7.5
27	15.3	12.9	13.6	13.4	12.8	13.0	12.3	11.7	12.1	7.7	7.1	7.4
28	14.6	13.4	14.1	13.2	12.9	13.0	12.4	12.2	12.3	---	---	---
29	---	---	---	13.5	13.0	13.2	12.4	11.9	12.2	7.1	6.7	7.0
30	---	---	---	13.7	12.2	12.8	12.2	11.6	12.0	7.1	6.6	7.0
31	---	---	---	13.4	12.1	12.7	---	---	---	7.1	6.9	7.0
MONTH	15.3	9.8	12.3	15.2	10.9	12.8	---	---	---	12.2	6.6	9.2

01183750 CONNECTICUT RIVER AT AGWAM, MASS.--continued

DISSOLVED OXYGEN (DO) , IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	6.8	7.0	---	---	---	---	---	---	---	---	---
2	7.4	6.8	7.1	---	---	---	---	---	---	---	---	---
3	7.4	6.9	7.1	---	---	---	---	---	---	---	---	---
4	7.5	7.1	7.4	---	---	---	---	---	---	---	---	---
5	8.0	7.2	7.6	---	---	---	---	---	---	---	---	---
6	8.3	7.6	7.9	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	15.3	6.6	10.8									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.5	16.0	11.5	10.5	11.0	2.0	1.5	1.5	2.0	1.5	1.5
2	15.5	15.0	15.0	12.0	11.0	11.5	3.0	1.5	2.0	2.5	1.5	2.0
3	15.0	13.5	14.0	11.5	11.0	11.0	3.0	2.0	2.0	2.0	1.0	1.5
4	14.0	13.0	13.5	12.5	11.5	12.0	2.5	1.5	2.0	2.0	1.0	1.5
5	14.0	13.0	13.5	12.0	11.5	11.5	2.5	0.5	2.0	1.5	1.0	1.0
6	14.0	13.0	13.5	12.0	11.0	11.5	2.5	1.0	1.5	1.5	0.5	1.0
7	15.0	13.5	14.0	11.0	10.5	11.0	1.5	1.0	1.5	1.5	1.0	1.0
8	14.5	13.5	14.0	10.5	10.0	10.0	3.5	1.5	2.0	2.0	0.5	1.5
9	14.5	13.0	13.5	10.0	9.5	10.0	4.0	2.5	3.0	2.0	1.5	1.5
10	14.0	13.0	13.5	10.0	9.0	9.5	2.5	2.0	2.5	2.0	1.0	1.5
11	14.0	13.0	13.5	10.0	8.5	9.5	2.5	1.5	2.0	2.5	1.5	2.0
12	13.5	13.0	13.0	10.0	9.0	9.5	3.0	2.0	2.5	2.5	2.0	2.0
13	14.5	13.0	13.5	9.5	8.0	9.0	3.0	2.5	3.0	2.0	1.5	2.0
14	13.5	12.5	13.0	9.0	7.5	8.0	3.5	3.0	3.0	1.5	1.0	1.0
15	14.0	13.0	13.5	8.5	7.5	8.0	3.5	3.0	3.0	1.0	0.5	1.0
16	13.5	13.0	13.0	7.5	6.5	7.0	3.0	2.5	2.5	1.0	0.0	0.5
17	13.0	12.0	12.5	6.5	5.5	6.0	2.5	1.5	2.0	1.5	0.5	1.0
18	12.0	11.0	11.5	6.0	5.5	6.0	2.5	1.5	2.0	1.0	0.5	0.5
19	11.5	10.0	10.5	6.5	5.0	5.5	2.5	1.5	2.0	1.0	0.5	1.0
20	10.5	9.0	9.5	7.0	6.0	6.5	2.5	2.0	2.0	1.5	0.5	1.0
21	9.5	8.5	9.0	7.0	6.5	6.5	2.5	2.0	2.0	1.5	0.5	1.0
22	9.0	8.0	8.5	6.5	4.5	5.5	3.0	2.5	2.5	1.5	0.5	1.0
23	9.5	8.5	9.0	4.5	3.5	4.0	3.0	2.0	2.5	1.5	0.5	1.0
24	10.0	9.0	9.5	3.5	3.5	3.5	3.0	2.5	2.5	1.5	0.5	1.0
25	9.5	9.0	9.0	4.0	3.5	4.0	2.5	1.5	2.0	1.5	1.0	1.5
26	10.0	9.0	9.5	4.0	3.0	3.5	2.0	1.0	1.5	1.5	1.0	1.5
27	10.0	8.5	9.0	3.0	2.5	2.5	2.0	1.0	1.5	1.5	1.0	1.0
28	10.0	8.5	9.0	2.5	2.0	2.5	1.5	1.0	1.5	1.5	0.5	1.0
29	10.5	9.0	9.5	2.5	2.0	2.5	2.0	1.0	1.5	1.5	1.5	1.5
30	10.5	9.5	10.0	2.5	2.0	2.0	3.0	1.5	2.0	2.0	1.0	1.5
31	11.0	10.0	10.5	---	---	---	2.5	1.5	2.0	1.0	0.5	1.0
MONTH	16.5	8.0	12.0	12.5	2.0	7.5	4.0	0.5	2.0	2.5	0.0	1.5

01183750 CONNECTICUT RIVER AT AGWAM, MASS.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.5	1.0	3.0	2.0	2.5	4.0	3.0	3.5	9.5	9.0	9.5
2	1.0	0.5	1.0	2.5	2.0	2.0	5.0	4.0	4.5	9.5	9.5	9.5
3	2.0	0.5	1.0	2.5	1.5	2.0	5.0	4.0	4.5	10.0	9.0	9.5
4	1.5	0.5	1.0	2.5	1.5	2.0	---	---	---	10.0	9.5	10.0
5	1.0	0.5	1.0	3.0	1.5	2.0	---	---	---	10.5	9.5	10.0
6	1.5	0.5	1.0	3.0	2.0	2.5	---	---	---	10.5	9.0	10.0
7	1.5	0.5	1.0	3.0	2.0	2.5	---	---	---	11.5	10.0	10.5
8	1.0	0.5	0.5	4.0	2.5	3.0	---	---	---	12.0	11.0	11.5
9	1.0	0.5	0.5	3.0	1.5	2.0	---	---	---	12.5	11.5	12.0
10	1.5	0.5	1.0	2.0	1.0	1.5	---	---	---	13.5	12.0	12.5
11	1.0	0.5	1.0	3.0	1.0	2.0	---	---	---	14.0	12.5	13.5
12	1.0	0.5	0.5	3.0	2.0	2.5	---	---	---	15.0	13.0	14.0
13	1.5	0.5	1.0	3.5	2.5	3.0	---	---	---	16.0	14.0	15.0
14	1.5	0.5	1.0	3.0	2.5	3.0	---	---	---	15.5	14.5	15.0
15	1.5	0.5	1.0	2.5	1.5	2.0	---	---	---	16.5	15.0	16.0
16	1.0	0.5	1.0	3.5	1.5	2.5	---	---	---	17.0	15.5	16.5
17	1.5	0.5	1.0	5.5	3.0	4.0	8.5	8.0	8.5	17.5	16.0	17.0
18	2.0	1.0	1.5	6.0	4.0	5.0	8.5	8.0	8.5	18.0	16.5	17.0
19	2.0	1.5	1.5	5.5	5.0	5.0	8.0	7.5	7.5	19.0	17.0	18.5
20	2.5	1.5	2.0	6.0	3.5	4.5	7.5	7.0	7.5	20.5	18.5	19.5
21	3.0	1.5	2.0	3.5	2.5	3.0	7.0	6.5	6.5	21.0	19.5	20.0
22	2.5	1.5	2.0	3.0	2.0	2.5	6.5	6.0	6.0	20.5	19.5	20.0
23	3.0	2.0	2.5	3.5	2.0	3.0	7.0	6.0	6.5	21.5	20.0	20.5
24	3.0	2.5	3.0	3.5	3.0	3.0	7.5	7.0	7.5	22.0	21.0	21.5
25	2.0	1.0	1.5	4.0	2.5	3.0	8.5	7.5	8.0	22.0	20.5	21.0
26	3.0	1.5	2.0	4.0	3.5	3.5	8.5	8.0	8.5	21.0	19.5	20.0
27	2.5	2.0	2.5	3.5	2.0	2.5	8.5	8.0	8.0	21.5	20.0	20.5
28	3.0	2.0	2.5	3.0	2.0	2.5	8.5	7.5	8.0	---	---	---
29	---	---	---	3.0	2.5	2.5	8.5	7.5	8.0	22.0	17.5	19.0
30	---	---	---	3.0	2.0	2.5	9.5	8.0	9.0	21.5	21.0	21.5
31	---	---	---	3.5	2.5	3.0	---	---	---	21.5	20.5	21.0
MONTH	3.0	0.5	1.5	6.0	1.0	3.0	---	---	---	22.0	9.0	15.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	20.5	21.0	---	---	---	---	---	---	---	---	---
2	22.0	20.5	21.0	---	---	---	---	---	---	---	---	---
3	21.5	20.5	21.0	---	---	---	---	---	---	---	---	---
4	21.0	19.5	20.5	---	---	---	---	---	---	---	---	---
5	19.5	18.5	19.0	---	---	---	---	---	---	---	---	---
6	18.5	17.5	18.0	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	22.0	0.0	6.5									

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.
(NASQAN and Radiochemical Station)

LOCATION.--Lat 41°59'14", long 72°36'21", Hartford County, on right bank just upstream from Enfield Dam, 1 mi (2 km) downstream from Thompsonville, 3 mi (5 km) downstream from Massachusetts-Connecticut State line, and at mile 68.2 (kilometre 109.7).

DRAINAGE AREA.--9,661 mi^2 (25,022 km^2).

PERIOD OF RECORD.--Discharge: July 1928 to current year.
Chemical analyses: October 1955 to September 1956, January 1966 to current year.
Water temperatures: October 1955 to September 1956, October 1973 to current year.
Sediment: October 1973 to current year.

GAGE.--Water-stage recorders on river and on canal of Connecticut Light and Power Co. Datum of gage is 38.48 ft (11.729 m) above mean sea level.

AVERAGE DISCHARGE.--47 years, 16,270 ft^3/s (460.8 m^3/s), 22.87 in/yr (581 mm/yr), adjusted for storage and diversion.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14800	8930	12300	11500	15200	22800	27200	29900	8730	4580	5340	11900
2	16400	8590	11800	9190	13300	18600	22700	32500	10100	4260	6520	6550
3	15000	6470	14500	10000	12200	16600	24000	38600	10700	4720	2870	6490
4	14200	5910	16400	9800	11200	16900	56000	38700	12400	4580	4170	6010
5	13000	9270	15000	7560	12000	16300	47000	43300	14300	2540	7010	7830
6	11600	14400	14600	8210	12700	16200	35300	44400	14700	2850	6050	5930
7	6900	15500	13800	9000	13600	15100	28800	39000	24100	3280	6130	5400
8	8340	14800	12600	10100	13200	15900	26600	35800	23600	4390	11400	4830
9	8300	13500	17700	10600	10500	14100	23900	33100	20300	3290	32300	6510
10	8980	9900	27000	12100	7660	11700	22100	29100	16400	4150	22800	5350
11	7930	9980	28200	12700	9820	12000	20300	23300	13900	3990	14200	4450
12	7310	10500	24700	15300	10800	13200	21400	19300	13300	3370	12000	4790
13	5260	12700	21300	17600	9240	14400	20000	18800	19900	3700	9050	6170
14	5760	15700	19800	20700	9100	15200	19900	25700	29600	19000	8280	4670
15	6060	14800	18200	18600	9480	14900	20300	26400	25500	29300	6750	4700
16	9090	14100	16600	16700	8200	12000	21400	22000	20500	23400	4980	6340
17	12600	13400	17600	15400	7630	9790	24800	21500	16800	17600	3320	6730
18	15700	11700	18200	13200	8250	13400	30600	19600	16800	15100	4000	6100
19	13600	10500	17700	9860	9520	14900	41300	16300	16300	13200	3940	7910
20	10900	11800	17400	10000	10700	33100	50700	13100	14000	7500	4220	8790
21	9200	15700	14700	11400	10700	62200	63200	12800	9470	11000	3410	9970
22	11200	29300	14000	13500	11200	63400	65500	14600	7040	13700	4520	8390
23	9510	30500	11400	11600	9520	53000	58300	14300	6200	12900	4310	10600
24	8160	20500	11200	9750	12800	44500	51100	13800	7380	9830	2610	15300
25	8630	16000	13000	10500	28100	47500	52200	12500	7930	9780	3060	22900
26	8380	18600	12300	14000	39600	48800	58400	8610	5070	10600	3750	35700
27	6290	20100	11500	15900	32100	48100	56500	7800	4340	7050	4460	58100
28	6540	16700	13200	15300	26900	37000	47800	7350	4230	6860	6810	59700
29	8100	17200	10300	15600	---	32400	40400	8440	3710	5200	4520	46700
30	7470	16100	8060	16600	---	30700	32700	8900	4170	5410	8520	38600
31	8310	---	11300	16800	---	27700	---	7150	---	5230	16800	---
TOTAL	303520	433150	486360	399070	385220	812390	1110400	686650	401470	272360	238100	433410
MEAN	9791	14440	15690	12870	13760	26210	37010	22150	13380	8786	7681	14450
MAX	16400	30500	28200	20700	39600	63400	65500	44400	29600	29300	32300	59700
MIN	5260	5910	8060	7560	7630	9790	19900	7150	3710	2540	2610	4450
(†)	129	343	234	119	352	0	2.17	136	676	378	615	433
MEAN‡	8756	14760	15750	12490	12920	25800	39750	25380	13660	9110	7572	15470
CFSM‡	.91	1.53	1.63	1.29	1.34	2.67	4.11	2.63	1.41	.94	.78	1.60
IN ‡	1.05	1.70	1.88	1.49	1.39	3.08	4.59	3.03	1.58	1.09	.90	1.79

CAL YR 1974	TOTAL	6721550	MEAN	18420	MAX	74300	MIN	1910	MEAN‡	18520	CFSM‡	1.92	IN‡	26.03
WTR YR 1975	TOTAL	5962100	MEAN	16330	MAX	65500	MIN	2540	MEAN‡	16770	CFSM‡	1.74	IN‡	23.57

†Diversion, in cubic feet per second, from Chicopee River basin to Wachusett Reservoir.

‡Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to Borden Brook and Cobble Mountain Reservoirs, and for diversion from Chicopee River basin.

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

EXTREMES.--Current year: Maximum discharge, 68,500 ft^3/s (1,940 m^3/s) Apr. 22, gage height, 5.37 ft (1.637 m), from floodmarks; minimum daily, 2,540 ft^3/s (71.9 m^3/s) July 5.
Specific conductance: Maximum recorded, 142 micromhos Jan. 20; minimum recorded, 60 micromhos June 14.
Water temperatures: Maximum, 32°C Aug. 3; minimum, 0.5°C on many days during January and February.

Period of record: Maximum discharge, 282,000 ft^3/s (7,990 m^3/s) Mar. 20, 1936, gage height, 16.6 ft (5.06 m), from floodmarks; minimum daily, 968 ft^3/s (27.4 m^3/s) Oct. 20, 1963.
Specific conductance (1974-75): Maximum recorded, 142 micromhos Jan. 20, 1975; minimum recorded, 60 micromhos June 14, 1975.
Water temperatures: Maximum, 32.0°C Aug. 3, 1975; minimum, freezing point on many days during winter months.

REMARKS.--Records good. Discharge includes water diverted around station by canal of Connecticut Light and Power Co. Flow regulated by power plants, by diversion from Chicopee River basin (see table below), and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Quabbin Reservoir, and other reservoirs, combined usable capacity, about 107 billion cu ft (3.03 billion cu m). Records of chemical analyses and water temperatures for the current year for station 01183750 (Connecticut River at Agawam, Mass.), 4.5 mi (7.2 km) upstream, are published on pages 95-101 of this report.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 891: Drainage area.

WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.												
08...	0930	7670	7.0	9.0	13.0	8.3	78	4.9	12	2.3	6.0	1.0
NOV.												
06...	0920	14600	7.0	16.0	11.0	9.4	85	5.5	11	2.1	6.0	1.3
DEC.												
11...	0920	27300	7.1	1.0	1.5	13.8	98	5.7	8.0	1.8	7.0	1.1
JAN.												
15...	1010	19300	7.1	-5.0	.5	13.6	94	6.1	9.0	1.7	7.4	.8
FEB.												
12...	0915	10200	6.9	-7.0	.0	13.4	92	6.2	9.7	2.0	8.0	.8
MAR.												
12...	0925	13200	7.0	3.5	2.5	13.3	96	5.9	10	1.8	8.5	1.1
APR.												
16...	0935	24200	6.9	11.5	6.5	12.1	98	5.7	9.0	1.5	5.2	1.0
MAY												
14...	0925	25800	6.9	24.5	14.0	9.8	94	4.7	7.3	1.3	4.2	2.1
JUNE												
18...	0945	17100	6.9	26.0	18.5	8.4	89	5.5	8.5	1.5	4.6	1.0
JULY												
09...	0920	2200	7.3	28.0	27.0	8.3	102	2.6	12	1.7	8.1	1.4
AUG.												
06...	0930	5290	6.8	26.5	27.0	7.7	95	3.8	12	1.7	8.1	1.6
SEP.												
17...	0910	6230	7.1	15.5	18.0	8.4	88	4.1	14	1.0	7.9	1.5

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
OCT.												
08...	33	0	27	11	8.2	.1	.01	.32	.40	.83	.43	1.2
NOV.												
06...	29	0	24	13	10	.2	.01	.43	.29	.43	.14	.86
DEC.												
11...	17	0	14	12	16	.0	.02	.33	.33	.40	.07	.73
JAN.												
15...	20	0	16	9.6	10	.0	.00	.36	.14	.33	.19	.69
FEB.												
12...	26	0	21	12	13	.2	.01	.51	.19	.88	.69	1.4
MAR.												
12...	30	0	25	12	14	.2	.01	.50	.19	.40	.21	.90
APR.												
16...	20	0	16	9.1	8.7	.1	.01	.43	.07	.17	--	.60
MAY												
14...	16	0	13	8.5	4.5	.1	.01	.27	.01	.32	--	.59
JUNE												
18...	21	0	17	10	7.9	.0	.01	.28	.19	.44	.25	.72
JULY												
09...	30	0	25	13	13	.1	.01	.15	.08	.76	--	.91
AUG.												
06...	32	0	26	8.9	11	.1	.02	.16	.09	.83	.74	.99
SEP.												
17...	33	0	27	11	10	.1	.02	.29	.10	.59	.49	.88

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.											
08...	5.1	.11	87	82	62	1700	.11	39	12	114	10
NOV.											
06...	3.8	.09	72	74	64	2920	.10	36	12	112	20
DEC.											
11...	3.2	.06	77	72	60	5310	.10	27	13	87	20
JAN.											
15...	3.1	.04	71	78	55	4060	.11	29	13	100	4
FEB.											
12...	6.2	.07	81	82	65	2260	.11	32	11	115	10
MAR.											
12...	4.0	.07	93	80	68	2850	.11	32	8	118	10
APR.											
16...	2.7	.05	71	60	50	3920	.08	29	12	93	3
MAY											
14...	2.6	.06	89	50	41	3480	.07	24	10	79	12
JUNE											
18...	3.2	.07	79	56	50	2590	.08	27	10	85	10
JULY											
09...	4.0	.14	93	79	67	469	.11	37	12	120	4
AUG.											
06...	4.4	.08	81	66	63	943	.09	37	11	175	8
SEP.											
17...	3.9	.08	111	62	66	1040	.08	39	12	130	3

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	PHENOLS (UG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM
OCT.											
08...	1	5.3	110000	8200	1100	7.2	1	.0	--	.4	24
NOV.											
06...	4	4.6	56000	5500	1000	4.7	0	.0	2	.4	26
DEC.											
11...	5	2.2	20000	2000	700	5.2	0	.0	--	.6	35
JAN.											
15...	3	2.5	7300	970	220	3.9	0	.0	--	.6	35
FEB.											
12...	5	5.2	18000	3600	1400	3.9	0	.1	--	.6	34
MAR.											
12...	3	4.8	32000	2000	1100	3.9	0	.1	--	.7	35
APR.											
16...	3	4.0	5000	2000	130	3.5	0	.0	--	.4	27
MAY											
14...	5	3.2	12000	1000	200	6.3	0	.0	--	.4	26
JUNE											
18...	4	4.2	65000	3600	220	4.8	0	.0	--	.4	26
JULY											
09...	5	2.4	70000	6000	220	5.5	0	.0	--	.6	31
AUG.											
06...	4	8.1	68000	9400	480	7.8	0	.1	--	.6	31
SEP.											
17...	3	4.2	140000	15000	1400	6.7	0	.0	--	.6	30

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	CHLORO-PHYLL A (UG/L)
OCT.							
08...	--	--	--	0	1	100	8.5
10...	91	8	--	--	--	--	--
NOV.							
06...	79	22	867	--	--	--	2.5
DEC.							
11...	83	37	2727	--	--	--	1.5
JAN.							
15...	67	41	2140	--	--	--	--
20...	--	--	--	--	--	--	--
FEB.							
12...	100	4	110	--	--	--	.0
MAR.							
12...	100	13	463	--	--	--	--
APR.							
16...	87	22	1440	--	--	--	.0
18...	--	--	--	--	--	--	--
MAY							
14...	77	11	766	--	--	--	.0
JUNE							
18...	88	20	923	--	--	--	.0
24...	--	--	--	--	--	--	--
JULY							
09...	--	--	--	--	--	--	43
10...	91	14	--	--	--	--	--
AUG.							
06...	--	--	--	--	--	--	16
08...	85	13	--	--	--	--	--
SEP.							
05...	--	--	--	--	--	--	--
17...	--	9	151	--	--	--	10

DATE	CHLORO-PHYLL B (UG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL A MG/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL B MG/SQ M
OCT.						
08...	7.5	2700	--	--	--	--
10...	--	--	--	--	--	--
NOV.						
06...	.0	5100	--	--	--	--
DEC.						
11...	.5	6800	--	--	--	--
JAN.						
15...	--	580	--	--	--	--
20...	--	--	3.8	6.2	2.0	.1
FEB.						
12...	.0	890	--	--	--	--
MAR.						
12...	--	290	--	--	--	--
APR.						
16...	.0	--	--	--	--	--
18...	--	960	--	--	--	--
MAY						
14...	.0	2000	--	--	--	--
JUNE						
18...	.0	2300	--	--	--	--
24...	--	--	2.1	3.8	1.8	.4
JULY						
09...	4.3	48000	--	--	--	--
10...	--	--	--	--	--	--
AUG.						
06...	.0	28000	--	--	--	--
08...	--	--	--	--	--	--
SEP.						
05...	--	--	39	51	6.2	1.9
17...	.0	9500	--	--	--	--

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
OCT.											
08...	--	--	--	2	--	--	--	1	--	--	--
NOV.											
06...	2	0	2	--	<10	0	10	--	0	<10	<10
DEC.											
11...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
15...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
12...	2	0	2	--	1	0	1	--	0	0	0
MAR.											
12...	--	--	--	--	--	--	--	--	--	--	--
APR.											
16...	--	--	--	--	--	--	--	--	--	--	--
MAY											
14...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
18...	1	0	1	--	1	0	1	--	<10	10	20
JULY											
09...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
06...	0	0	0	--	2	0	2	--	<10	0	<10
SEP.											
17...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)
OCT.											
08...	4	--	--	--	10	--	--	10	160	--	85000
NOV.											
06...	--	0	0	0	0	10	10	--	160	760	--
DEC.											
11...	--	--	--	--	0	--	--	--	130	--	--
JAN.											
15...	--	--	--	--	10	--	--	--	150	--	--
FEB.											
12...	--	0	1	1	0	0	0	--	140	260	--
MAR.											
12...	--	--	--	--	0	--	--	--	120	--	--
APR.											
16...	--	--	--	--	0	--	--	--	120	--	--
MAY											
14...	--	--	--	--	0	--	--	--	220	--	--
JUNE											
18...	--	0	0	0	20	10	30	--	140	610	--
JULY											
09...	--	--	--	--	10	--	--	--	50	--	--
AUG.											
06...	--	2	0	2	0	0	0	--	40	270	--
SEP.											
17...	--	--	--	--	10	--	--	--	60	--	--

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
08...	--	--	--	10	--	60	--	--	7100	--
NOV.										
06...	1	5	6	--	--	70	60	130	--	<.5
DEC.										
11...	--	--	--	--	--	30	--	--	--	--
JAN.										
15...	--	--	--	--	--	50	--	--	--	--
FEB.										
12...	2	0	2	--	--	60	0	60	--	<.5
MAR.										
12...	--	--	--	--	--	50	--	--	--	--
APR.										
16...	--	--	--	--	--	70	--	--	--	--
MAY										
14...	--	--	--	--	--	30	--	--	--	--
JUNE										
18...	3	1	4	--	0	40	20	60	--	<.5
JULY										
09...	--	--	--	--	--	10	--	--	--	--
AUG.										
06...	0	2	2	--	--	0	70	70	--	<.5
SEP.										
17...	--	--	--	--	--	10	--	--	--	--

DATE	SUS-PENDED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.										
08...	--	--	.0	--	--	--	30	--	--	43
NOV.										
06...	.0	<.5	--	0	0	0	20	130	150	--
DEC.										
11...	--	--	--	--	--	--	10	--	--	--
JAN.										
15...	--	--	--	--	--	--	20	--	--	--
FEB.										
12...	.0	<.5	--	1	0	1	30	0	20	--
MAR.										
12...	--	--	--	--	--	--	10	--	--	--
APR.										
16...	--	--	--	--	--	--	20	--	--	--
MAY										
14...	--	--	--	--	--	--	30	--	--	--
JUNE										
18...	.0	<.5	--	0	1	1	0	20	20	--
JULY										
09...	--	--	--	--	--	--	0	--	--	--
AUG.										
06...	.0	<.5	--	0	0	0	0	0	0	--
SEP.										
17...	--	--	--	--	--	--	10	--	--	--

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 08...	.0	5	.0	.0	.4	.0	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)
OCT. 08...	0	0	.0	.0	.0	.0	.0	.0	.0	29	3.5	1000

DATE	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (U) (UG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
APR. 16...	63	5	2.3	.5	.03	.02	<.6	<.4	1.8	.5

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

OCT. 8, 1974
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,700 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...OCCYSTACEAE			
....ANKISTRODESMUS		27	1
...SCENEDESMACEAE			
....ACTINASTRUM		210	8
....SCENEDESMUS		80	3
..VOLVOCALES			
...CHLAMYDOMONADACEAE			
....CHLAMYDOMONAS		240	9
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...CHAETOCERACEAE			
....CHAETOCEROS		110	4
...COSCINODISCACEAE			
D ....CYCLOTELLA		750	28
....MELOSIRA		270	10
..PENNALES	PENNATE		
...CYMBELLACEAE			
....AMPHORA		27	1
...FRAGILARIACEAE			
....SYNEDRA		27	1
...NAVICULACEAE	NAVICULOID		
....NAVICULA		27	1
....NEIDIUM		27	1
...NITZSCHIACEAE			
....NITZSCHIA		27	1
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..CHROOCOCCALES	COCCOID		
...CHROOCOCCACEAE			
....ANACYSTIS		80	3
..OSCILLATORIALES	FILAMENTOUS		
...OSCILLATORIACEAE			
D ....LYNGBYA		800	30

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.512
CLASS	1.512
ORDER	2.088
FAMILY	2.421
GENERA	2.846

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

NOV. 6, 1974
1315 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,100 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..ULOTRICHALES			
...CHAETOPHORACEAE			
....STIGEOCLONIUM		540	11
..ZYGNEMATALES			
...DESMIDIACEAE	PLACODERM DESMIDS		
....COSMARIUM		49	1
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...COSCINODISCACEAE			
....MELOSIRA		300	6
..PENNALES	PENNATE		
...ACHNANTHACEAE			
....COCCONEIS		49	1
...CYMBELLACEAE			
....AMPHORA		99	2
....CYMBELLA		49	1
...FRAGILARIACEAE			
D ....ASTERIONELLA		2,200	43
....HANNAEA		49	1
...GOMPHONEMATACEAE			
....GOMPHONEMA		49	1
...NAVICULACEAE	NAVICULOID		
....NAVICULA		490	10
...SURIRELLACEAE			
....SURIRELLA		49	1
.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
..CHRYSOMONADALES			
...OCHROMONADACEAE			
....DINOBRYON		99	2
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...NOSTOCACEAE			
D ....ANABAENA		1,100	21

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.218
CLASS	1.344
ORDER	1.673
FAMILY	2.415
GENERA	2.508

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

DEC. 11, 1974
0920 HOURS

IDENTIFICATION OF PHYTOPLANKTON

6,800 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...OCCYSTACEAE			
....ANKISTRODESMUS		78	1
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...COSCINODISCACEAE			
....CYCLOTELLA		78	1
..PENNALES	PENNATE		
...ACHNANTHACEAE			
....ACHNANTHES		860	12
....COCCONEIS		160	2
...CYMBELLACEAE			
....CYMBELLA		78	1
...FRAGILARIACEAE			
....ASTERIONELLA		160	2
....FRAGILARIA		230	3
...GOMPHONEMATACEAE			
....GOMPHONEMA		160	2
...NAVICULACEAE	NAVICULOID		
....NAVICULA		700	10
...NITZSCHIACEAE			
....NITZSCHIA		700	10
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...OSCILLATORIACEAE			
D ....LYNGBYA		3,700	53

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.074
CLASS	1.074
ORDER	1.150
FAMILY	2.143
GENERA	2.290

JAN. 15, 1975
1010 HOURS

IDENTIFICATION OF PHYTOPLANKTON

580 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..PENNALES	PENNATE		
...ACHNANTHACEAE			
D ....ACHNANTHES		120	20
...CYMBELLACEAE			
....CYMBELLA		39	7
...FRAGILARIACEAE			
....ASTERIONELLA		78	13
D ....FRAGILARIA		140	23
....HANNAEA		39	7
....SYNEDRA		39	7
...NAVICULACEAE	NAVICULOID		
D ....NAVICULA		120	20
...NITZSCHIACEAE			
....NITZSCHIA		19	3

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

FAMILY	1.853
GENERA	2.751

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

FEB. 12, 1975
0915 HOURS

IDENTIFICATION OF PHYTOPLANKTON

890 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		18	2
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		18	2
	...CYMBELLACEAE			
	....CYMBELLA		36	4
	...FRAGILARIACEAE			
	....HANNAEA			
D	.....HANNAEA ARCUS		140	16
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		18	2
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		89	10
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
	..CHRYSOMONADALES			
	...OCHROMONADACEAE			
	....DINOBRYON		18	2
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		550	62

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.958
CLASS	1.071
ORDER	1.183
FAMILY	1.820
GENERA	1.820

MAR. 12, 1975
0925 HOURS

IDENTIFICATION OF PHYTOPLANKTON

290 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....MELOSIRA		11	4
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		34	12
	...DIATOMACEAE			
	....DIATOMA		23	8
	...FRAGILARIACEAE			
D	....FRAGILARIA		100	36
D	....HANNAEA		46	16
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		34	12
	...NITZSCHIACEAE			
	....NITZSCHIA		34	12

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

ORDER	0.242
FAMILY	2.069
GENERA	2.532

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

APR. 18, 1975
1330 HOURS

IDENTIFICATION OF PHYTOPLANKTON

960 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....MELOSIRA		22	2
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		33	3
	....COCCONEIS		11	1
	...CYMBELLACEAE			
	....CYMBELLA		67	7
	...DIATOMACEAE			
	....DIATOMA		33	3
	...EUNOTIACEAE			
	....EUNOTIA		78	8
	...FRAGILARIACEAE			
	....ASTERIONELLA		45	5
	....FRAGILARIA		110	12
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		22	2
	...NITZSCHIACEAE			
	....NITZSCHIA		89	9
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		450	47

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.996
CLASS	0.996
ORDER	1.134
FAMILY	2.448
GENERA	2.627

MAY 14, 1975
0925 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,000 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....MELOSIRA		66	3
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
D	....ACHNANTHES		330	17
	...CYMBELLACEAE			
	....CYMBELLA		130	7
	...DIATOMACEAE			
	....DIATOMA		66	3
	...FRAGILARIACEAE			
	....FRAGILARIA		130	7
	....HANNAEA			
D	.....HANNAEA ARCUS		330	17
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		66	3
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		390	20
	...NITZSCHIACEAE			
D	....NITZSCHIA		460	23

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

ORDER	0.211
FAMILY	2.626
GENERA	2.828

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

JUNE 18, 1975
0945 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,300 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...CHARACIACEAE			
	....SCHROEDERIA		27	1
	...MICRACTINIACEAE			
	....MICRACTINIUM		110	5
	...OCCYSTACEAE			
	....ANKISTRODESMUS		27	1
	....KIRCHNERIELLA		27	1
	...SCENEDESMACEAE			
	....CRUCIGENIA		110	5
	....SCENEDESMUS		53	2
	....TETRASTRUM		110	5
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		610	27
	....MELOSIRA		130	6
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		270	12
	...CYMBELLACEAE			
	....CYMBELLA		80	4
	...FRAGILARIACEAE			
	....SYNEDRA		27	1
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		53	2
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		210	9
	...NITZSCHIACEAE			
	....NITZSCHIA		27	1
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
	..CHRYSOMONADALES			
	...OCHROMONADACEAE			
	....DINOBRYON		80	4
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		320	14

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.260
CLASS	1.458
ORDER	2.080
FAMILY	3.003
GENERA	3.428

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

JULY 9, 1975
0920 HOURS

IDENTIFICATION OF PHYTOPLANKTON

48,000 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...COELASTRACEAE			
	....COELASTRUM		5,200	11
	...HYDRODICTYACEAE			
L	....PEDIASTRUM			0
	...MICRACTINIACEAE			
	....GOLENKINIA		240	1
	....MICRACTINIUM		5,600	12
	...OCCYSTACEAE			
	....ANKISTRODESMUS		1,400	3
	....CHODATELLA		560	1
	....DICTYOSPHAERIUM		320	1
	....KIRCHNERIELLA		320	1
	....SELENASTRUM		730	2
L	....TETRAEDRON			0
	...SCENEDESMACEAE			
	....CRUCIGENIA		1,600	3
	....SCENEDESMUS		3,500	7
	....TETRASTRUM		1,300	3
	..VOLVOCALES			
	...VOLVOCACEAE			
L	....PANDORINA			0
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		18,000	37
	....MELOSIRA		1,700	4
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
L	....ACHNANTHES			0
	...FRAGILARIACEAE			
L	....ASTERIONELLA			0
	....FRAGILARIA		480	1
	....SYNEDRA		400	1
	...GOMPHONEMATACEAE			
L	....GOMPHONEMA			0
	...NAVICULACEAE	NAVICULOID		
L	....NAVICULA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		2,200	5
	...TABELLARIACEAE			
L	....TABELLARIA			0
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE		
	..HETEROCOCCALES			
	...CHLOROTHECIACEAE			
L	....OPHIOCYTIUM			0
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		970	2
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
	....ANABAENA		1,400	3
	...OSCILLATORIACEAE			
	....LYNGBYA		1,900	4
	PYRRHOPHYTA			
	.DINOPHYCEAE	DINOFLAGELLATES		
	..GYMNODINIALES			
	...GYMNODINIACEAE			
L	....GYMNODINIUM			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.367
CLASS	1.383
ORDER	1.735
FAMILY	2.721
GENERA	3.294

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

AUG. 6, 1975
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

28,000 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...HYDRODICTYACEAE			
	....PEDIASTRUM		3,800	13
	...MICRACTINIACEAE			
	....MICRACTINIUM		2,400	8
	...OCCYSTACEAE			
	....ANKISTRODESMUS		240	1
	....CHODATELLA		240	1
	....DICTYOSPHAERIUM		2,900	10
L	....OOCYSTIS			0
	...SCENEDESMACEAE			
	....ACTINASTRUM		1,900	7
	....SCENEDESMUS		2,900	10
L	....TETRASTRUM			0
	..VOLVOCALES			
	...VOLVOCACEAE			
L	....EUDORINA			0
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
L	....STAURASTRUM			0
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		9,300	33
	....MELOSIRA		4,100	14
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
L	....COCCONEIS			0
	...CYMBELLACEAE			
L	....CYMBELLA			0
	...FRAGILARIACEAE			
L	....FRAGILARIA			0
L	....SYNEDRA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		720	3
	...TABELLARIACEAE			
L	....TABELLARIA			0
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
L	....ANACYSTIS			0
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
L	....ANABAENA			0
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....TRACHELOMONAS			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.000
CLASS	1.000
ORDER	1.144
FAMILY	2.131
GENERA	2.797

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

SEP. 17, 1975
0810 HOURS

IDENTIFICATION OF PHYTOPLANKTON

9,500 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...CHARACIACEAE			
	....SCHROEDERIA		80	1
	...HYDRODICTYACEAE			
L	....PEDIASTRUM			0
	...MICRACTINIACEAE			
	....MICRACTINIUM		880	9
	...OCCYSTACEAE			
L	....DICTYOSPHAERIUM			0
L	....OOCYSTIS			0
	...SCENEDESMACEAE			
	....ACTINASTRUM		640	7
	....CRUCIGENIA		320	3
	....SCENEDESMUS		160	2
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		5,100	54
D	....MELOSIRA		2,200	24
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		80	1
	...FRAGILARIACEAE			
L	....ASTERIONELLA			0
L	....FRAGILARIA			0
	...NITZSCHIACEAE			
L	....NITZSCHIA			0
	...SURIRELLACEAE			
L	....SURIRELLA			0
	...TABELLARIACEAE			
L	....TABELLARIA			0
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
L	....ANABAENA			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.757
CLASS	0.757
ORDER	0.824
FAMILY	1.084
GENERA	1.931

PERIPHYTON
(Sampling method-Polyethylene strip)

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio
Jan 20	28	6.2	3.8	2.0	0.1	1200
June 26	36	3.8	2.1	1.8	0.4	960
Sept 5	28	51	39	6.2	1.9	1900

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	108	102	106	119	114	116	89	88	88	108	99	102
2	107	100	103	117	114	115	---	---	---	119	110	116
3	106	101	103	117	112	114	---	---	---	116	103	108
4	111	106	108	122	118	120	---	---	---	107	101	105
5	113	111	112	124	119	121	94	89	92	110	102	107
6	113	112	113	118	103	108	98	93	95	107	101	103
7	116	112	113	104	94	97	102	96	98	107	102	105
8	116	114	115	103	96	99	104	100	102	118	108	115
9	118	115	117	104	100	102	106	68	87	126	115	122
10	115	110	113	107	104	105	77	65	70	129	116	125
11	115	110	112	110	106	108	83	77	81	115	108	112
12	113	109	110	109	107	108	88	82	85	108	93	103
13	114	108	112	113	104	110	88	86	87	93	90	92
14	116	112	114	102	89	94	89	85	87	97	90	93
15	117	113	114	95	93	94	87	85	86	92	89	90
16	117	113	114	96	94	95	91	85	86	92	86	90
17	121	111	117	97	95	96	117	89	106	91	88	89
18	110	105	106	100	78	89	104	89	99	105	89	95
19	105	102	103	85	83	84	---	---	---	133	102	119
20	107	103	105	85	84	84	---	---	---	142	125	131
21	111	107	109	89	84	85	---	---	---	129	107	116
22	111	106	108	86	82	84	---	---	---	108	98	101
23	111	104	107	85	82	84	91	89	90	105	99	102
24	117	112	115	88	85	87	98	91	92	109	103	106
25	117	114	115	91	86	88	97	88	92	118	107	113
26	114	113	113	93	89	91	92	89	91	120	108	116
27	115	113	115	99	94	96	93	91	92	107	95	99
28	115	114	115	104	99	101	94	92	93	96	93	95
29	115	114	115	104	89	98	100	94	97	108	96	99
30	117	113	115	89	87	88	105	98	100	107	100	104
31	117	113	114	---	---	---	101	96	99	110	104	108
MONTH	121	100	111	124	78	99	---	---	---	142	86	106

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	104	103	104	101	94	97	81	79	80	82	79	80
2	105	103	104	102	100	101	83	81	82	83	81	82
3	106	102	104	102	101	101	85	75	82	84	81	83
4	103	101	101	102	101	101	74	62	68	82	80	80
5	104	102	103	104	101	102	68	62	64	80	76	79
6	105	98	101	109	104	106	72	68	70	75	74	75
7	114	105	111	110	106	108	74	71	72	75	72	73
8	111	104	107	113	109	111	71	67	69	75	73	74
9	106	103	105	112	108	109	75	72	74	76	73	75
10	110	104	107	112	107	109	83	75	78	79	75	77
11	113	110	112	120	112	115	92	84	89	80	78	79
12	111	106	108	123	116	120	93	87	90	83	79	81
13	105	103	105	120	116	118	88	86	87	86	81	84
14	111	105	109	121	108	113	87	85	86	80	67	71
15	115	111	113	123	107	113	86	84	84	72	68	70
16	120	115	117	137	125	134	88	85	87	81	72	76
17	121	117	119	134	119	125	88	85	87	83	79	81
18	121	117	119	119	116	118	86	83	85	84	81	82
19	131	121	126	118	109	114	83	81	82	88	82	85
20	132	130	131	116	74	101	80	75	77	91	85	89
21	129	122	126	77	70	75	76	74	75	91	90	90
22	121	113	117	72	66	69	76	72	74	90	87	89
23	114	113	114	74	72	73	76	73	75	90	88	89
24	115	96	110	74	67	71	79	76	78	94	89	91
25	95	74	81	72	67	70	79	76	77	95	93	94
26	74	71	72	67	66	66	76	75	76	94	92	93
27	76	71	75	76	68	74	75	74	74	98	94	96
28	95	74	86	77	76	76	76	74	75	99	95	97
29	---	---	---	81	77	80	79	76	77	100	98	100
30	---	---	---	82	79	80	80	78	79	100	98	99
31	---	---	---	81	77	79	---	---	---	100	95	98
MONTH	132	71	107	137	66	98	93	62	78	100	67	84

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	103	99	101	106	103	104	113	108	112	108	105	106
2	101	97	99	107	103	106	114	112	113	110	107	109
3	98	97	97	110	107	108	113	109	111	118	110	114
4	101	97	99	109	105	108	118	110	113	121	112	117
5	102	91	96	106	103	104	122	110	116	116	110	113
6	91	85	89	115	106	110	114	110	113	114	109	111
7	89	82	86	117	113	115	113	111	112	115	111	113
8	82	80	81	118	112	115	115	109	113	118	111	115
9	81	78	79	114	111	112	108	79	90	119	117	118
10	82	79	80	120	112	116	87	79	82	118	114	116
11	90	82	86	122	119	120	89	85	87	119	115	117
12	94	90	92	120	115	118	90	85	87	120	115	117
13	98	79	92	122	115	119	90	84	87	124	121	123
14	78	60	71	122	86	100	97	85	89	125	121	123
15	68	62	66	92	86	89	100	94	97	126	121	123
16	73	69	71	86	77	81	105	100	103	126	122	124
17	82	73	78	87	81	85	---	---	---	129	125	126
18	84	81	82	88	82	85	---	---	---	129	123	125
19	88	85	87	89	86	87	---	---	---	136	129	134
20	92	88	89	90	88	89	---	---	---	139	135	137
21	95	91	93	99	89	95	---	---	---	137	131	134
22	98	95	97	99	88	94	---	---	---	132	128	129
23	103	97	100	89	88	88	---	---	---	131	126	129
24	106	102	104	94	89	91	---	---	---	132	122	126
25	107	104	105	97	93	95	---	---	---	121	105	110
26	106	98	104	98	96	98	---	---	---	103	75	90
27	101	99	100	98	96	97	---	---	---	74	66	69
28	102	99	101	97	94	95	---	---	---	72	69	71
29	104	98	101	99	96	98	117	113	115	70	68	70
30	104	100	103	105	99	102	117	112	115	77	71	74
31	---	---	---	108	101	104	118	108	113	---	---	---
MONTH	107	60	91	122	77	101	---	---	---	139	66	113
YEAR	142	60	98									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	16.5	17.0	12.0	11.5	12.0	2.0	2.0	2.0	2.5	2.0	2.0
2	16.5	16.0	16.5	12.5	12.0	12.0	---	---	---	2.5	2.0	2.0
3	16.0	15.0	15.0	12.0	11.5	12.0	---	---	---	2.0	1.5	2.0
4	14.5	14.5	14.5	13.0	11.5	12.5	---	---	---	2.0	1.5	2.0
5	15.0	14.0	14.5	13.0	12.0	12.5	3.5	2.0	2.5	2.0	1.5	1.5
6	15.5	14.5	15.0	12.5	12.0	12.0	3.5	2.0	2.0	1.5	1.0	1.0
7	15.5	14.5	15.0	12.0	11.0	11.5	3.5	1.5	2.0	1.5	1.0	1.0
8	15.0	14.5	14.5	11.0	10.5	10.5	3.5	2.0	3.0	2.0	1.0	1.5
9	15.0	14.0	14.5	10.5	10.0	10.5	4.5	3.5	4.0	2.0	2.0	2.0
10	14.5	14.0	14.5	10.5	9.5	10.0	3.5	3.0	3.0	2.5	2.0	2.0
11	14.5	13.5	14.0	10.0	9.5	10.0	3.0	2.5	3.0	2.5	2.0	2.5
12	14.5	13.5	14.0	10.5	10.0	10.0	3.0	2.5	3.0	3.0	2.5	3.0
13	14.5	13.5	14.0	10.5	9.0	10.0	3.5	3.0	3.0	3.0	2.0	2.5
14	14.0	13.5	14.0	9.5	9.0	9.5	3.5	3.5	3.5	2.5	1.5	2.0
15	14.5	14.0	14.0	9.0	8.5	9.0	3.5	3.5	3.5	1.5	0.5	1.0
16	14.5	13.5	14.0	8.5	7.5	8.0	3.5	3.0	3.5	1.0	0.5	1.0
17	13.5	13.0	13.0	7.5	6.5	7.0	3.5	3.0	3.0	1.0	0.5	1.0
18	13.0	12.0	12.5	7.0	5.5	6.5	3.0	1.5	3.0	0.5	0.5	0.5
19	12.0	11.0	11.5	5.5	4.5	5.0	---	---	---	1.0	0.5	0.5
20	11.0	10.0	10.5	5.0	4.5	4.5	---	---	---	1.0	0.5	0.5
21	10.0	9.0	9.5	5.0	5.0	5.0	---	---	---	0.5	0.5	0.5
22	9.5	9.0	9.5	5.0	3.5	4.5	---	---	---	1.0	0.5	1.0
23	10.0	9.0	9.5	3.5	3.0	3.5	3.0	2.5	2.5	1.0	1.0	1.0
24	10.0	9.5	10.0	3.5	3.0	3.0	3.5	3.0	3.0	2.0	1.0	1.5
25	10.0	9.5	9.5	3.0	3.0	3.0	3.0	2.0	2.5	2.0	1.5	1.5
26	10.0	9.5	9.5	3.0	2.5	3.0	2.0	1.5	2.0	2.0	1.5	2.0
27	10.0	9.5	10.0	2.5	2.5	2.5	2.0	1.5	2.0	2.0	1.5	1.5
28	9.5	8.5	9.5	3.5	2.5	3.0	2.0	2.0	2.0	1.5	1.0	1.5
29	10.5	9.5	10.5	3.5	2.5	3.0	2.0	1.5	2.0	2.0	1.5	2.0
30	10.5	10.0	10.5	2.5	2.0	2.5	2.5	2.0	2.0	2.0	1.5	2.0
31	11.5	10.5	11.5	---	---	---	2.5	2.0	2.5	2.0	1.0	1.5
MONTH	17.0	8.5	12.5	13.0	2.0	7.5	---	---	---	3.0	0.5	1.5

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	1.0	1.5	3.0	2.5	2.5	5.0	3.5	4.0	10.0	9.5	9.5
2	1.5	1.0	1.5	3.0	2.5	2.5	6.0	4.5	5.0	10.0	9.5	10.0
3	1.5	1.0	1.5	3.0	2.0	2.5	6.5	5.0	5.5	10.5	9.5	10.0
4	1.5	0.5	1.0	2.5	2.0	2.5	5.5	3.5	4.0	10.5	10.5	10.5
5	1.0	0.5	0.5	3.0	2.0	2.5	4.0	3.0	3.0	10.5	10.0	10.5
6	1.0	0.5	0.5	3.0	2.0	2.5	4.0	3.5	3.5	11.0	10.0	10.5
7	1.5	1.0	1.5	3.0	2.5	3.0	5.0	4.0	4.5	12.0	10.5	11.0
8	1.5	1.0	1.0	3.5	3.0	3.5	5.0	4.0	4.5	12.5	11.5	12.0
9	1.0	0.5	1.0	3.0	2.0	2.5	5.5	4.5	5.0	13.0	12.0	12.5
10	1.0	0.5	1.0	2.0	1.5	2.0	7.0	5.0	6.0	13.5	12.5	13.0
11	1.0	1.0	1.0	3.0	2.0	2.5	8.0	6.0	7.0	14.5	12.5	13.5
12	1.0	0.5	0.5	3.5	2.5	3.0	8.0	7.0	7.5	15.0	13.5	14.5
13	1.0	0.5	1.0	3.5	3.0	3.0	7.5	6.5	7.0	16.0	14.5	15.0
14	1.0	0.5	1.0	3.5	2.5	3.0	8.0	6.5	7.5	15.5	14.5	15.0
15	1.5	1.0	1.0	3.0	2.0	2.5	8.5	7.5	8.0	16.5	15.0	16.0
16	1.0	1.0	1.0	3.5	2.0	3.0	9.0	7.5	8.0	17.0	15.5	16.5
17	1.5	1.0	1.0	5.0	3.0	4.0	9.5	8.0	9.0	17.5	16.0	17.0
18	2.0	1.0	1.5	6.0	4.5	5.0	9.5	9.0	9.0	18.0	16.5	17.5
19	2.5	2.0	2.0	6.0	5.0	5.5	9.0	8.5	8.5	19.5	17.5	18.5
20	2.5	2.0	2.5	6.5	4.0	5.5	9.0	8.0	8.5	20.5	19.0	19.5
21	3.0	2.5	2.5	4.0	3.0	3.5	7.5	7.0	7.5	21.0	20.0	20.5
22	3.0	2.5	2.5	3.5	2.5	3.0	7.0	6.5	7.0	20.5	20.0	20.0
23	3.0	2.5	2.5	3.5	2.5	3.0	7.5	6.5	7.0	21.5	20.0	20.5
24	3.0	3.0	3.0	3.5	3.5	3.5	8.0	7.5	7.5	22.5	21.0	21.5
25	3.0	2.0	2.5	4.0	3.0	3.5	9.0	8.0	8.5	21.5	20.5	21.0
26	2.5	2.0	2.5	4.0	3.5	4.0	9.0	8.5	9.0	20.5	19.5	20.0
27	3.0	2.0	2.5	3.5	2.5	3.0	9.0	8.0	8.5	21.5	20.0	20.5
28	3.0	2.5	2.5	3.5	2.0	3.0	9.0	8.0	8.5	22.0	20.0	21.5
29	---	---	---	3.0	3.0	3.0	9.5	8.0	8.5	23.0	20.5	22.0
30	---	---	---	3.5	3.0	3.0	10.0	9.0	9.5	22.0	21.5	21.5
31	---	---	---	4.0	3.0	3.5	---	---	---	22.0	21.0	21.5
MONTH	3.0	0.5	1.5	6.5	1.5	3.0	10.0	3.0	7.0	23.0	9.5	16.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.0	21.0	21.5	25.0	23.5	24.5	28.5	27.0	28.0	20.5	20.0	20.0
2	22.5	20.5	21.5	25.5	24.5	25.0	30.0	28.0	29.0	20.5	20.0	20.5
3	21.5	21.0	21.5	27.0	25.5	26.0	32.0	29.0	30.5	20.5	20.0	20.5
4	21.5	20.5	21.0	27.0	25.5	26.5	30.5	28.0	29.0	21.0	20.0	20.5
5	20.0	19.0	19.5	27.0	26.0	26.5	29.0	27.5	28.5	21.5	20.0	21.0
6	19.0	17.5	18.0	27.5	26.0	27.0	28.5	26.0	27.5	21.0	20.5	21.0
7	18.5	16.5	17.5	28.0	27.0	27.5	25.5	23.5	24.5	21.0	20.5	20.5
8	17.0	16.5	17.0	28.0	27.0	27.5	23.5	22.0	23.0	21.5	21.0	21.0
9	17.5	16.5	17.0	27.5	27.0	27.0	22.0	20.5	21.0	21.5	20.5	21.0
10	18.0	16.5	17.0	28.0	27.0	27.5	24.0	20.5	22.0	20.5	20.0	20.5
11	19.0	17.0	18.0	27.5	27.0	27.5	24.0	23.0	23.5	20.5	19.5	20.0
12	18.5	18.0	18.0	27.5	26.5	27.0	24.5	23.0	24.0	20.0	19.5	20.0
13	18.0	16.5	17.5	26.5	25.5	26.0	25.0	24.0	24.5	20.0	19.5	19.5
14	17.0	16.5	16.5	25.5	24.5	25.0	25.5	24.5	25.0	19.5	18.5	19.0
15	18.0	17.0	17.5	24.5	24.0	24.0	24.5	24.5	24.5	18.5	17.5	18.0
16	18.0	17.5	18.0	24.5	23.0	24.0	25.5	23.0	24.5	18.0	17.5	18.0
17	19.0	17.5	18.0	25.5	24.5	25.0	---	---	---	19.0	17.5	18.0
18	20.0	18.5	19.5	26.5	25.0	26.0	---	---	---	18.5	17.5	18.0
19	21.5	19.5	20.5	26.5	25.5	26.0	---	---	---	18.0	18.0	18.0
20	22.0	21.0	21.5	26.5	25.5	26.0	---	---	---	18.5	18.0	18.5
21	22.5	20.5	21.5	27.0	25.0	26.0	---	---	---	19.0	18.5	19.0
22	23.5	21.0	22.5	28.5	26.5	27.5	---	---	---	19.5	18.5	19.0
23	24.5	22.0	23.5	27.0	26.5	27.0	---	---	---	19.0	18.5	19.0
24	26.0	24.0	25.0	27.0	26.5	27.0	---	---	---	18.5	16.5	17.5
25	26.0	24.5	25.5	27.0	26.5	26.5	---	---	---	16.5	15.0	15.5
26	25.0	24.5	25.0	29.5	25.5	26.5	---	---	---	15.0	15.0	15.0
27	25.5	25.0	25.0	26.0	25.0	25.5	---	---	---	15.5	15.0	15.0
28	25.0	24.5	25.0	26.0	24.5	25.5	---	---	---	15.5	15.0	15.0
29	25.5	24.5	25.0	26.5	25.0	26.0	24.0	23.0	23.5	15.0	14.5	14.5
30	25.0	24.5	24.5	26.5	25.0	26.0	23.5	21.0	22.5	15.0	14.5	14.5
31	---	---	---	27.0	26.0	26.5	21.5	20.5	21.0	---	---	---
MONTH	26.0	16.5	20.5	29.5	23.0	26.0	---	---	---	21.5	14.5	18.5
YEAR	32.0	0.5	11.5									

01184490 BROAD BROOK AT BROAD BROOK, CONN.

LOCATION.--Lat 41°54'50", long 72°33'00", Hartford County, on left bank just upstream from bridge on State Highway 191 (Mill Street) at Broad Brook, 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--15.6 mi^2 (40.4 km^2).

PERIOD OF RECORD.--August 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 53.24 ft (16.228 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 22.2 ft^3/s (0.629 m^3/s), 19.33 in/yr (491 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,140 ft^3/s (32.3 m^3/s) Sept. 27, gage height, 6.56 ft (1.999 m); minimum, 12 ft^3/s (0.34 m^3/s) July 10, 11, gage height 0.74 ft (0.287 m).

Period of record: Maximum discharge, 1,140 ft^3/s (32.3 m^3/s) Sept. 27, 1975, gage height, 6.56 ft (1.999 m); minimum, 1.35 ft^3/s (0.038 m^3/s) Jan. 1, 1965, gage height, 0.43 ft (0.131 m); minimum daily, 1.70 ft^3/s (0.048 m^3/s) July 17, 1965.

PEAK DISCHARGE.--(BASE, 150 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-02	1930	2.52	199
12-09	0500	2.31	157
02-24	2130	2.77	249
03-20	1000	2.62	219
04-03	2130	2.84	263
07-14	2100	2.52	199
09-27	unknown	6.56	1,140

REMARKS.--Records good. Flow regulated by reservoir and mill upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	29	18	26	32	39	33	23	18	15	15	15
2	20	23	109	25	31	37	30	22	17	16	15	18
3	19	20	70	23	28	33	106	27	16	15	15	15
4	18	24	35	23	25	30	102	35	34	15	15	14
5	17	27	28	22	27	28	54	25	22	15	15	14
6	16	31	26	21	27	28	51	27	66	15	15	14
7	15	23	25	23	27	28	42	21	37	15	25	14
8	15	21	44	23	26	31	38	19	25	15	28	14
9	15	20	103	52	26	26	37	18	21	14	23	15
10	15	19	44	49	24	25	34	18	19	14	17	14
11	15	19	35	57	24	26	32	17	19	13	16	14
12	15	20	32	64	24	28	29	17	45	17	16	17
13	15	22	31	65	23	32	28	30	35	31	15	20
14	15	20	29	64	23	28	27	25	30	80	15	15
15	15	20	27	41	23	28	26	22	26	40	14	15
16	51	19	31	36	22	30	28	27	25	20	14	15
17	62	18	66	33	22	31	27	24	25	18	15	15
18	27	18	41	36	25	29	25	22	24	17	14	15
19	22	18	32	72	28	31	28	20	22	18	14	15
20	20	19	30	53	34	143	36	19	22	21	14	15
21	19	39	28	36	34	66	31	18	21	99	14	15
22	19	30	28	35	37	47	27	18	20	34	15	15
23	19	22	27	33	51	41	24	19	19	21	14	24
24	18	21	26	32	138	41	24	19	18	19	14	62
25	19	21	27	45	139	46	25	18	17	27	15	200
26	21	21	25	79	66	39	25	17	16	22	14	350
27	19	19	24	44	47	33	30	18	15	19	14	450
28	18	19	24	37	41	31	31	17	21	17	14	90
29	18	19	24	41	---	32	27	16	30	16	14	60
30	18	18	24	43	---	44	27	16	18	16	30	45
31	37	---	24	36	---	38	---	19	---	15	19	---
TOTAL	659	659	1137	1269	1074	1169	1084	653	743	729	507	1614
MEAN	21.3	22.0	36.7	40.9	38.4	37.7	36.1	21.1	24.8	23.5	16.4	53.8
MAX	62	39	109	79	139	143	106	35	66	99	30	450
MIN	15	18	18	21	22	25	24	16	15	13	14	14
CFSM	1.37	1.41	2.35	2.62	2.46	2.42	2.31	1.35	1.59	1.51	1.05	3.45
IN.	1.57	1.57	2.71	3.03	2.56	2.79	2.58	1.56	1.77	1.74	1.21	3.85

CAL YR 1974 TOTAL 9751 MEAN 26.7 MAX 122 MIN 12 CFSM 1.71 IN 23.25
WTR YR 1975 TOTAL 11297 MEAN 31.0 MAX 450 MIN 13 CFSM 1.99 IN 26.94

01184500 SCANTIC RIVER AT BROAD BROOK, CONN.

LOCATION.--Lat 41°54'42", long 72°33'48", Hartford County, on left bank 300 ft (91 m) upstream from bridge on State Highway 191, 0.5 mi (0.8 km) downstream from Broad Brook, 1 mi (2 km) southwest of village of Broad Brook, 8.2 mi (13.2 km) upstream from mouth.

DRAINAGE AREA.--98.2 mi^2 (254.3 km^2).

PERIOD OF RECORD.--Discharge: August 1928 to September 1971. Occasional low-flow measurements and annual maximum, October 1971 to current year. See pages 335,341.
Chemical analyses: September 1952, October 1952, March 1953, December 1953 to September 1960, August 1968, October 1974 to September 1975.
Water temperatures: October 1953 to September 1960; October 1968 to September 1969, October 1974 to September 1975.
Sediment records: November 1952 to July 1960, February to September 1968 (periodic).

GAGE.--Water-stage recorder. Datum of gage is 26.23 ft (7.995 m) above mean sea level.

AVERAGE DISCHARGE.--43 years, 138 ft^3/s (3.908 m^3/s), 20.29 in/yr (515 mm/yr).

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	176	173	174	190	139	159
2	---	---	---	---	---	---	187	124	153	201	162	179
3	---	---	---	---	---	---	128	109	122	167	162	164
4	170	165	168	---	---	---	108	93	99	169	163	166
5	184	172	177	---	---	---	117	102	109	168	165	167
6	184	182	183	---	---	---	136	117	128	173	164	168
7	193	186	190	---	---	---	149	137	144	182	171	176
8	200	196	198	150	147	149	152	122	145	195	169	181
9	204	201	203	160	150	157	123	108	111	188	162	180
10	208	207	208	167	157	163	107	96	99	159	143	149
11	219	211	216	172	168	170	106	96	98	142	123	134
12	---	---	---	174	169	171	119	106	113	122	106	114
13	---	---	---	176	173	175	130	120	125	105	100	102
14	---	---	---	176	169	171	137	131	134	114	101	106
15	---	---	---	168	165	167	142	137	140	107	96	102
16	---	---	---	170	163	166	150	142	144	125	106	115
17	---	---	---	173	170	171	196	139	161	134	121	128
18	---	---	---	176	170	173	151	123	136	160	135	141
19	---	---	---	178	175	176	126	117	123	196	129	148
20	---	---	---	179	174	176	133	112	126	128	114	119
21	---	---	---	178	161	170	139	134	136	137	114	127
22	---	---	---	159	136	149	144	138	141	147	135	139
23	---	---	---	135	126	128	144	139	141	150	141	144
24	---	---	---	143	128	136	148	141	144	147	144	145
25	---	---	---	154	143	150	146	141	143	178	148	153
26	---	---	---	159	154	156	148	140	145	151	125	132
27	---	---	---	164	156	159	151	146	150	124	113	117
28	---	---	---	170	164	166	163	153	157	124	116	120
29	---	---	---	172	168	170	163	156	160	151	122	133
30	---	---	---	173	170	171	162	158	160	136	132	134
31	---	---	---	---	---	---	163	141	156	132	105	129
MONTH	---	---	---	---	---	---	196	93	136	201	96	141

01184500 SCANTIC RIVER AT BROAD BROOK, CONN.--continued

EXTREMES.--Current year: Maximum discharge, 2,240 ft^3/s (63.4 m^3/s) Sept. 27, gage height, 10.87 ft (3.313 m).
Specific conductance: Maximum recorded, 269 micromhos Feb. 19; minimum recorded, 71 micromhos Sept. 28.
Water temperatures: Maximum, 25.5°C June 25; minimum, freezing point on many days during winter.

Period of record: Maximum discharge, 13,300 ft^3/s (377 m^3/s) Aug. 19, 1955, gage height, 19.9 ft (6.07 m), from flood-marks, from rating curve extended above 1,200 ft^3/s (34.0 m^3/s) on basis of computation of flow over dams 7 and 9 mi (11 and 14 km) above station, at gage heights 13.9 and 14.4 ft (4.24 and 4.39 m) adjusted for flow from intervening area on basis of computation of flow over dam on Broad Brook and by slope-area measurement of peak flow; minimum, 5.0 ft^3/s (0.14 m^3/s) July 31, 1965.
Specific conductance: Maximum recorded, 269 micromhos Feb. 19, 1975; minimum daily, 54 micromhos Aug. 20, 1955.
Water temperatures: Maximum, 29.5°C June 18, 1957; minimum, freezing point on many days during winter months.
Sediment concentrations: Maximum daily, 721 mg/l Oct. 16, 1955; minimum daily, 1 mg/l Jan. 22, 23, 1953, November 22, 1959.

REMARKS.--Flow regulated by mills and small reservoirs upstream. See REVISIONS summary paragraph in WSP 1901.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	137	128	132	122	113	117	129	122	127	167	161	164
2	146	136	141	134	121	127	136	130	133	176	164	169
3	152	145	149	135	125	131	140	103	131	170	158	164
4	162	130	155	139	132	134	109	96	106	159	154	157
5	165	156	160	148	136	142	96	88	91	157	146	151
6	164	155	159	156	140	151	107	94	101	146	138	141
7	181	162	170	157	150	154	114	107	109	149	138	145
8	172	160	166	156	150	153	120	114	117	155	147	152
9	166	157	164	154	148	151	127	120	123	160	154	157
10	179	164	171	157	152	154	134	125	130	165	160	163
11	207	175	190	165	155	159	137	132	135	169	165	167
12	175	172	173	169	155	164	137	135	137	177	168	171
13	174	167	172	168	154	159	138	135	137	175	152	165
14	177	167	172	157	148	152	143	138	140	150	139	146
15	182	167	173	183	145	155	144	141	142	141	136	138
16	189	169	177	240	157	176	146	144	145	153	142	148
17	177	169	173	159	155	157	149	144	148	153	147	150
18	225	171	182	158	154	156	154	148	151	155	147	151
19	269	187	219	157	152	154	156	153	154	164	153	159
20	188	168	177	153	111	124	154	152	153	167	159	164
21	174	159	165	116	93	106	161	151	156	174	166	169
22	165	156	159	106	93	98	163	154	158	180	173	176
23	162	147	152	118	107	112	167	157	160	184	177	181
24	146	97	124	127	119	123	169	156	161	206	182	187
25	97	88	95	129	127	128	159	150	155	189	181	184
26	88	84	86	129	122	126	152	143	147	200	189	192
27	97	88	92	129	121	124	149	143	147	210	192	198
28	113	97	104	137	128	132	156	148	153	190	169	177
29	---	---	---	139	136	137	161	153	157	187	175	178
30	---	---	---	141	133	138	163	157	160	187	181	184
31	---	---	---	135	130	133	---	---	---	187	182	184
MONTH	269	84	155	240	93	140	169	88	139	210	136	166

01184500 SCANTIC RIVER AT BROAD BROOK, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	182	179	180	184	176	178	151	128	137	201	187	192
2	180	176	179	199	185	192	201	152	178	220	203	213
3	191	180	184	204	200	202	208	195	203	232	222	227
4	199	166	185	212	205	208	204	201	203	235	230	233
5	165	162	164	216	212	214	204	198	201	242	235	238
6	164	135	150	218	214	217	227	202	214	244	237	241
7	140	120	129	221	216	218	196	162	178	248	243	246
8	129	117	122	226	222	224	172	148	161	251	242	246
9	154	130	144	228	222	225	146	109	130	246	238	243
10	167	154	161	226	206	221	107	98	101	247	242	244
11	179	168	174	198	191	194	135	102	120	248	241	244
12	182	172	179	192	183	187	152	135	143	242	232	239
13	169	139	155	183	146	169	157	151	154	240	219	230
14	138	123	130	140	83	109	176	157	163	219	201	211
15	133	122	126	100	89	95	199	177	191	213	202	207
16	153	134	145	100	91	96	199	174	179	229	215	223
17	162	153	159	113	99	107	223	203	218	236	230	233
18	171	162	165	130	114	123	213	198	203	241	236	239
19	176	170	172	183	131	147	203	192	196	241	234	238
20	186	177	180	191	183	189	236	204	224	236	233	234
21	195	186	189	189	130	147	253	235	247	246	236	239
22	199	194	196	132	118	127	256	246	251	255	247	250
23	202	196	199	131	117	120	252	248	250	251	229	244
24	206	200	202	163	130	149	261	249	252	230	160	203
25	209	205	207	177	159	171	250	244	248	157	137	147
26	212	208	210	177	169	172	246	242	244	135	86	121
27	216	212	215	171	164	165	247	242	244	86	72	74
28	218	215	216	177	165	171	253	247	249	73	70	71
29	218	176	209	183	176	179	255	251	253	102	73	85
30	180	159	170	186	154	178	252	179	216	109	103	106
31	---	---	---	154	126	139	207	192	199	---	---	---
MONTH	218	117	173	228	83	169	261	98	198	255	70	205
YEAR	269	70	163									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	2.0	1.5	2.0	2.5	2.0	2.0
2	---	---	---	---	---	---	3.0	2.0	2.5	2.5	2.0	2.0
3	---	---	---	---	---	---	3.0	2.5	2.5	2.0	1.0	1.5
4	10.5	9.5	10.0	---	---	---	2.5	1.5	2.0	2.0	1.5	2.0
5	10.0	8.5	9.5	---	---	---	1.5	0.0	0.5	2.0	1.0	1.5
6	12.0	9.5	10.5	---	---	---	1.0	0.0	0.5	1.5	0.0	0.5
7	12.5	11.5	12.0	---	---	---	2.0	0.5	1.5	2.0	0.0	1.0
8	12.0	9.5	11.0	10.0	9.0	9.5	6.5	2.0	3.5	2.0	1.0	1.5
9	9.5	8.5	9.0	9.0	8.0	8.5	6.5	4.5	5.0	2.5	2.0	2.0
10	9.5	8.0	9.0	8.0	7.5	7.5	4.5	2.0	3.0	2.5	2.0	2.0
11	10.0	8.0	9.0	7.5	7.0	7.0	2.5	2.0	2.5	4.0	2.5	3.0
12	---	---	---	8.0	7.0	7.5	3.0	2.5	2.5	4.0	3.5	4.0
13	---	---	---	9.0	8.0	8.5	3.5	2.5	3.0	4.0	2.0	3.0
14	---	---	---	8.0	7.5	8.0	4.0	3.5	3.5	2.0	1.0	1.5
15	---	---	---	8.5	7.5	8.0	3.5	2.5	3.0	0.5	0.0	0.0
16	---	---	---	7.5	5.0	6.5	2.5	2.0	2.5	0.0	0.0	0.0
17	---	---	---	5.0	4.0	4.5	3.0	2.0	2.5	0.0	0.0	0.0
18	---	---	---	4.5	3.5	4.0	3.0	2.5	2.5	0.0	0.0	0.0
19	---	---	---	5.0	4.0	4.5	2.5	1.5	2.0	2.0	0.0	0.5
20	---	---	---	7.0	5.0	6.0	2.0	1.5	2.0	2.0	0.0	1.0
21	---	---	---	7.5	7.0	7.5	2.5	2.0	2.5	---	---	---
22	---	---	---	6.5	4.0	5.0	3.0	2.5	3.0	---	---	---
23	---	---	---	3.5	2.5	3.0	2.5	2.0	2.5	---	---	---
24	---	---	---	3.5	2.5	3.0	3.0	2.5	3.0	---	---	---
25	---	---	---	4.5	4.0	4.5	2.5	1.5	2.0	---	---	---
26	---	---	---	4.0	2.5	3.5	1.5	0.0	1.0	---	---	---
27	---	---	---	2.5	2.0	2.0	1.0	0.0	0.0	---	---	---
28	---	---	---	2.5	2.0	2.0	2.0	1.0	1.5	---	---	---
29	---	---	---	2.5	2.5	2.5	2.0	1.0	1.5	2.5	2.0	2.5
30	---	---	---	2.5	1.5	2.0	2.5	2.0	2.0	2.5	1.5	2.0
31	---	---	---	---	---	---	2.0	1.5	2.0	1.5	0.0	1.0
MONTH	---	---	---	---	---	---	6.5	0.0	2.0	---	---	---

01184500 SCANTIC RIVER AT BROAD BROOK, CONN.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.0	0.0	3.0	2.5	3.0	6.5	4.0	5.5	13.5	12.5	13.0
2	0.0	0.0	0.0	3.0	2.0	2.5	8.0	5.5	7.0	13.0	11.0	12.0
3	0.0	0.0	0.0	2.5	1.5	2.0	8.0	5.5	7.5	14.0	11.0	13.0
4	0.0	0.0	0.0	2.0	0.0	1.5	5.5	3.5	4.0	14.5	12.0	13.0
5	0.0	0.0	0.0	2.5	0.0	1.5	3.5	2.5	3.0	12.0	11.5	11.5
6	0.0	0.0	0.0	3.0	2.0	2.5	4.0	2.5	3.0	13.0	10.5	11.5
7	2.0	0.0	0.0	3.5	2.5	3.0	5.0	3.5	4.0	15.0	12.5	14.0
8	1.0	0.0	0.0	4.0	3.0	3.5	6.5	5.0	5.5	15.5	14.0	15.0
9	0.0	0.0	0.0	3.0	1.5	2.0	7.5	5.5	6.5	17.0	14.5	15.5
10	0.0	0.0	0.0	2.0	0.0	1.0	8.5	6.0	7.5	17.0	15.5	16.0
11	0.0	0.0	0.0	3.0	2.0	2.5	9.5	7.5	9.0	17.0	15.0	16.0
12	0.0	0.0	0.0	3.5	3.0	3.0	9.5	8.0	9.0	17.0	16.0	16.5
13	0.0	0.0	0.0	4.0	3.0	3.5	9.5	8.0	9.0	17.5	16.5	17.0
14	0.0	0.0	0.0	3.5	2.5	3.0	10.0	7.5	9.0	19.0	17.0	17.5
15	0.0	0.0	0.0	3.0	1.5	2.5	10.0	9.0	9.5	19.0	17.5	18.5
16	0.0	0.0	0.0	4.0	2.0	3.0	10.5	9.5	10.0	19.5	17.5	18.0
17	1.5	0.0	0.0	5.0	3.5	4.5	11.5	10.0	11.0	18.5	17.0	18.0
18	1.5	0.0	0.5	6.5	4.0	5.0	12.0	11.0	11.5	18.5	17.0	18.0
19	2.5	0.0	2.0	7.5	5.0	6.0	12.0	12.0	12.0	20.0	17.5	19.0
20	3.0	2.0	2.5	7.5	5.5	6.5	12.0	11.5	12.0	21.0	19.5	20.5
21	3.0	2.0	2.5	5.5	4.5	5.0	12.0	10.5	11.5	21.5	21.0	21.0
22	3.0	2.0	2.5	4.0	3.5	3.5	11.5	10.0	11.0	21.0	20.0	20.5
23	3.0	2.5	3.0	5.5	3.0	4.0	13.0	11.5	12.0	21.5	19.5	20.5
24	3.0	1.5	2.5	6.5	5.5	6.0	13.5	12.5	13.0	23.5	21.0	22.0
25	1.5	0.0	1.0	7.0	5.5	6.0	14.0	13.0	13.5	21.5	18.0	20.0
26	0.5	0.0	0.0	7.0	6.0	6.5	14.5	12.5	13.5	17.5	16.5	17.0
27	1.5	0.5	1.0	6.0	3.5	4.5	13.5	10.5	12.0	19.5	17.0	18.5
28	3.0	1.5	2.5	4.5	2.0	3.5	11.5	9.5	10.5	20.5	19.0	19.5
29	---	---	---	5.0	3.5	4.0	12.5	10.5	11.5	20.5	19.0	20.0
30	---	---	---	5.0	4.0	4.5	13.5	11.5	12.5	20.0	18.5	19.5
31	---	---	---	5.0	4.0	4.5	---	---	---	20.0	18.5	19.0
MONTH	3.0	0.0	0.5	7.5	0.0	3.5	14.5	2.5	9.0	23.5	10.5	17.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	19.5	20.0	21.0	19.5	20.0	20.0	17.0	18.5	18.0	15.0	16.0
2	20.5	18.5	19.5	22.0	19.0	20.5	21.5	18.5	20.0	20.0	17.5	19.0
3	19.5	17.5	19.0	24.0	20.5	22.0	21.5	19.5	20.5	20.0	18.0	19.0
4	18.0	17.0	17.5	25.0	21.5	23.0	20.0	19.0	19.5	19.5	17.0	18.0
5	17.5	15.5	16.5	24.0	21.5	22.5	20.0	19.0	19.5	20.5	17.5	19.0
6	15.5	14.5	15.0	24.5	21.5	22.5	21.5	19.0	20.0	20.5	19.0	20.0
7	16.0	14.5	15.0	24.5	22.0	23.5	18.5	15.0	16.5	20.5	18.5	19.5
8	16.0	15.0	15.5	25.0	23.0	23.5	16.0	14.5	15.0	21.0	19.0	20.0
9	16.0	15.0	15.5	25.0	23.0	23.5	15.5	14.0	15.0	21.0	18.5	20.5
10	17.0	15.5	16.0	24.5	22.5	23.5	16.5	15.0	15.5	19.0	17.0	18.0
11	19.0	16.5	17.5	25.0	23.0	24.0	16.5	16.0	16.0	18.0	16.5	17.5
12	18.5	16.5	17.5	23.5	21.5	22.5	18.0	16.0	17.0	20.0	18.0	19.0
13	17.0	16.0	16.5	22.5	21.0	21.5	19.0	16.0	17.5	19.5	18.0	18.5
14	18.5	16.5	17.5	22.5	21.5	22.0	19.5	17.0	18.0	18.0	16.5	17.5
15	19.0	18.5	18.5	23.0	22.0	22.5	20.0	18.0	19.0	17.0	15.5	16.0
16	19.0	18.5	18.5	24.5	22.5	23.5	20.5	18.0	18.5	16.5	15.5	16.0
17	19.5	17.5	19.0	24.5	24.0	24.5	20.0	19.5	20.0	18.5	16.5	17.0
18	21.5	19.5	20.5	25.0	24.5	24.5	21.5	19.5	20.5	18.5	17.5	18.0
19	23.5	21.0	22.0	25.0	24.5	24.5	21.0	19.0	20.0	18.5	18.0	18.0
20	23.5	21.0	22.0	24.5	23.5	24.0	20.0	17.5	19.0	19.0	18.5	19.0
21	22.0	20.0	21.0	24.5	22.0	23.5	19.5	17.0	18.5	21.0	19.5	20.0
22	22.5	20.0	21.0	24.5	23.0	24.0	20.5	19.0	19.5	21.0	19.5	20.0
23	24.0	21.0	22.5	24.0	18.5	23.5	21.5	19.0	20.5	20.0	19.0	19.5
24	25.0	22.5	24.0	20.0	18.5	19.5	20.0	19.0	19.5	19.0	14.0	17.5
25	25.5	23.5	24.5	19.5	17.0	18.0	20.0	19.0	19.5	14.0	13.5	13.5
26	24.0	21.5	23.0	17.0	16.5	16.5	21.0	20.0	20.5	15.0	13.5	14.0
27	22.0	20.5	21.0	16.5	15.5	16.0	22.5	20.5	21.5	17.0	15.5	16.5
28	21.0	20.5	21.0	17.0	16.0	16.5	22.0	20.0	21.0	16.5	15.5	16.0
29	21.5	20.0	20.5	17.5	16.0	16.5	21.5	19.5	20.5	15.5	14.0	14.5
30	21.0	19.5	20.5	17.5	16.0	16.5	21.0	15.5	18.5	14.5	14.0	14.5
31	---	---	---	18.5	16.0	17.0	17.5	15.5	16.5	---	---	---
MONTH	25.5	14.5	19.5	25.0	15.5	21.5	22.5	14.0	18.5	21.0	13.5	18.0
YEAR	25.5	0.0	11.0									

01186000 WEST BRANCH FARMINGTON RIVER AT RIVERTON, CONN.

LOCATION.--41°57'46", long 73°01'05", Litchfield County, on right bank at downstream side of bridge on State Highway 20 at Riverton, 0.3 mi (0.5 km) upstream from Still River, 2.0 mi (3.2 km) downstream from Goodwin Dam of West Branch Reservoir, and at mile 55.0 (88.5 km).

DRAINAGE AREA.--131 mi^2 (339 km^2).

PERIOD OF RECORD.--Discharge: August 1955 to current year.
Chemical analyses: April and October 1954; April 1955; January to September 1975.
Water temperatures: January to September 1975.

GAGE.--Water-stage recorder. Datum of gage is 485.60 ft (148.011 m) above mean sea level. Prior to Mar. 29, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE (adjusted for storage).--20 years, 243 ft^3/s (6.882 m^3/s), 25.20 in/yr (640 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,090 ft^3/s (87.5 m^3/s) Sept. 26, gage height, 8.18 ft (2.493 m); minimum, 36 ft^3/s (1.02 m^3/s) Aug. 21-25, gage height, 2.95 ft (0.899 m).
Specific conductance: Maximum recorded, 106 micromhos May 3; minimum recorded, 34 micromhos Sept. 26.
Water temperatures: Maximum, 22.0°C Aug. 3; minimum, 1.0°C Mar. 26-28.

Period of record: Maximum discharge observed, 10,600 ft^3/s (300 m^3/s) Oct. 16, 1955, gage height, 12.47 ft (3.801 m); minimum discharge, 0.9 ft^3/s (0.026 m^3/s) July 21, 1960; minimum gage height, 2.43 ft (0.741 m) Sept. 16, 1957.
Specific conductance: Maximum recorded, 106 micromhos May 3, 1975; minimum recorded, 34 micromhos Sept. 26, 1975.
Water temperatures: Maximum, 22.0°C Aug. 3, 1975; minimum, 1.0°C Mar. 26-28, 1975.

Flood of Aug. 19, 1955, reached a stage of 21.1 ft (6.431 m), from floodmarks, discharge, 57,200 ft^3/s (162 m^3/s), by slope-area measurement 1.5 mi (2.4 km) upstream.

REMARKS.--Records good. Flow regulated by Otis and West Branch Reservoirs and Colebrook River Lake (see p.211). See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	256	237	234	209	165	367	166	135	169	193	255
2	126	251	289	222	207	159	437	164	124	134	175	258
3	139	248	289	192	207	157	634	160	115	116	173	224
4	139	251	237	191	203	154	472	171	129	107	173	103
5	139	256	180	191	203	164	1110	226	108	108	176	92
6	132	262	175	190	203	184	1670	253	270	107	208	91
7	141	242	175	191	203	187	1840	337	398	106	338	90
8	139	240	254	191	203	188	1060	298	321	93	373	91
9	132	237	266	126	203	185	457	322	224	85	359	130
10	147	237	203	141	203	182	457	526	171	77	335	246
11	147	237	205	140	202	340	334	441	152	72	330	276
12	147	237	232	188	194	541	240	373	199	81	326	297
13	147	274	232	198	180	530	240	735	422	106	324	291
14	147	274	232	160	180	404	232	927	654	343	323	268
15	149	265	230	138	180	175	237	800	636	347	327	280
16	141	265	228	223	180	171	237	380	628	496	331	292
17	102	262	246	220	180	174	304	316	488	387	332	286
18	87	262	251	193	180	178	351	304	317	275	328	452
19	82	262	268	250	169	200	376	259	268	244	328	456
20	80	265	264	221	145	453	382	253	241	252	328	452
21	78	301	262	220	143	237	400	186	213	444	213	468
22	78	283	262	227	143	153	361	196	263	538	37	476
23	134	274	254	240	146	130	262	171	257	561	37	468
24	237	271	240	240	242	180	237	171	250	506	37	350
25	237	271	240	249	264	189	242	171	252	464	134	292
26	240	268	238	284	203	206	240	166	236	369	324	950
27	240	259	237	258	181	480	232	178	217	360	309	540
28	240	242	237	246	170	600	229	206	218	357	257	182
29	240	242	235	238	---	583	226	173	217	353	251	400
30	240	240	234	228	---	430	213	129	207	314	295	700
31	259	---	234	215	---	373	---	132	---	253	264	---
TOTAL	4814	7734	7366	6445	5326	8452	14079	9290	8330	8224	7938	9756
MEAN	155	258	238	208	190	273	469	300	278	265	256	325
MAX	259	301	289	284	264	600	1840	927	654	561	373	950
MIN	78	237	175	126	143	130	213	129	108	72	37	90
(†)	-10.9	+14.4	+131.4	+114.3	+110.6	+262.8	+16.4	+22.5	-35.8	+11.8	-132.0	+136.5
MEAN‡	144	272	369	322	301	536	485	322	242	277	124	462
CFSM‡	1.10	2.08	2.82	2.46	2.30	4.09	3.70	2.46	1.85	2.11	0.95	3.53
IN‡	1.27	2.32	3.25	2.84	2.40	4.72	4.13	2.84	2.06	2.43	1.10	3.94

CAL YR 1974 TOTAL 104526 MEAN 286 MAX 984 MIN 64 MEAN‡ 263 CFSM‡ 2.01 IN‡ 28.10
WTR YR 1975 TOTAL 97754 MEAN 268 MAX 1840 MIN 37 MEAN‡ 321 CFSM‡ 2.45 IN‡ 33.30

†Change in contents in Otis and West Branch Reservoirs and Colebrook River Lake, equivalent in cubic feet per second; records furnished by the Massachusetts Department of Natural Resources, Division of Forests and Parks, Hartford Metropolitan District Commission, and Corps of Engineers.

‡Adjusted for change in contents.

01186000 WEST BRANCH FARMINGTON RIVER AT RIVERTON, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	80	78	79
21	---	---	---	---	---	---	---	---	---	94	77	85
22	---	---	---	---	---	---	---	---	---	77	76	77
23	---	---	---	---	---	---	---	---	---	76	75	76
24	---	---	---	---	---	---	---	---	---	81	74	78
25	---	---	---	---	---	---	---	---	---	83	78	81
26	---	---	---	---	---	---	---	---	---	78	74	75
27	---	---	---	---	---	---	---	---	---	75	74	75
28	---	---	---	---	---	---	---	---	---	76	74	75
29	---	---	---	---	---	---	---	---	---	77	76	76
30	---	---	---	---	---	---	---	---	---	76	74	75
31	---	---	---	---	---	---	---	---	---	75	73	74
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	75	74	74	77	75	76	80	75	77	90	86	87
2	74	73	74	76	75	76	78	75	77	90	87	88
3	74	73	73	76	75	76	77	53	67	106	88	95
4	75	72	73	77	75	76	72	57	66	95	83	88
5	74	72	73	78	76	77	75	72	74	85	80	82
6	74	73	74	78	77	78	75	71	73	85	80	83
7	74	73	74	79	77	78	73	69	70	86	79	82
8	74	73	73	78	76	77	73	71	72	88	82	85
9	74	73	73	77	75	76	72	69	71	89	82	84
10	74	73	74	78	76	77	73	68	71	83	80	82
11	74	73	74	79	78	79	72	69	71	86	79	82
12	74	73	74	81	79	79	71	68	70	85	82	83
13	76	73	74	80	79	79	69	67	68	82	77	79
14	76	74	75	81	77	79	71	66	69	82	77	79
15	79	75	76	78	76	77	69	67	69	83	80	82
16	79	76	77	80	77	78	71	68	69	84	81	82
17	79	76	77	81	77	79	73	68	70	83	80	82
18	78	77	78	79	76	78	71	68	70	82	80	81
19	83	77	78	79	67	77	75	69	70	85	81	83
20	79	77	78	63	52	55	84	67	74	86	82	84
21	79	77	78	69	59	66	78	73	75	85	82	84
22	80	77	79	73	69	71	77	72	74	85	82	84
23	79	78	79	76	73	74	84	73	77	86	83	85
24	78	64	71	74	71	73	84	70	76	85	59	69
25	68	64	66	74	71	72	70	61	66	59	56	57
26	73	68	71	73	70	73	76	72	74	59	56	58
27	76	73	74	76	72	74	73	72	72	59	57	59
28	76	74	75	78	74	76	74	71	73	58	55	57
29	---	---	---	77	76	77	83	74	77	60	56	58
30	---	---	---	78	75	77	88	82	85	76	57	61
31	---	---	---	77	75	76	---	---	---	78	71	74
MONTH	83	64	75	81	52	75	88	53	72	106	55	78

01186000 WEST BRANCH FARMINGTON RIVER AT RIVERTON, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	71	69	70	72	68	70	72	69	71	69	67	68
2	69	60	66	72	68	70	72	70	71	70	68	69
3	62	59	61	72	70	71	72	70	71	72	68	70
4	62	58	60	72	69	71	72	70	71	72	69	70
5	61	58	60	72	68	70	70	69	70	71	69	70
6	60	54	57	72	68	70	69	66	68	72	69	70
7	62	60	61	72	69	71	66	64	65	72	69	70
8	62	60	61	73	70	71	66	63	64	73	69	70
9	62	61	61	73	70	72	69	64	66	72	68	71
10	64	60	62	73	71	72	70	68	69	70	67	68
11	65	61	63	74	72	73	71	69	70	68	66	67
12	65	58	64	74	71	72	71	69	70	69	68	69
13	66	57	60	72	70	71	71	70	70	68	67	68
14	70	65	68	70	54	62	71	70	70	67	66	67
15	71	69	70	70	55	63	71	69	70	68	65	66
16	71	70	71	76	70	73	70	69	70	68	66	67
17	72	70	71	76	73	74	71	69	70	68	59	65
18	74	71	72	76	73	74	71	70	71	59	58	59
19	73	71	72	77	74	75	71	69	70	61	59	60
20	74	72	73	76	74	74	71	69	70	66	61	62
21	73	70	72	74	62	70	80	69	72	63	62	62
22	73	70	71	68	65	66	80	77	79	63	61	62
23	72	70	71	70	66	68	78	69	71	63	62	63
24	74	72	73	70	68	69	71	69	70	63	47	60
25	73	71	72	69	67	68	72	70	70	51	45	47
26	72	69	71	69	65	67	72	71	71	62	34	51
27	72	68	70	70	66	68	73	70	71	57	36	47
28	71	69	70	70	67	68	72	70	71	65	57	62
29	73	69	71	70	67	69	72	70	70	67	63	64
30	72	69	70	70	68	69	70	67	68	63	62	63
31	---	---	---	71	68	70	69	67	68	---	---	---
MONTH	74	54	67	77	54	70	80	63	70	73	34	64
YEAR	106	34	72									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	3.0	2.5	2.5
21	---	---	---	---	---	---	---	---	---	3.5	2.0	2.5
22	---	---	---	---	---	---	---	---	---	4.0	2.5	3.0
23	---	---	---	---	---	---	---	---	---	4.0	2.5	3.0
24	---	---	---	---	---	---	---	---	---	4.0	2.5	3.0
25	---	---	---	---	---	---	---	---	---	3.5	3.0	3.5
26	---	---	---	---	---	---	---	---	---	3.5	3.0	3.0
27	---	---	---	---	---	---	---	---	---	3.5	2.5	3.0
28	---	---	---	---	---	---	---	---	---	4.0	2.5	3.0
29	---	---	---	---	---	---	---	---	---	3.5	3.0	3.5
30	---	---	---	---	---	---	---	---	---	3.5	2.5	3.0
31	---	---	---	---	---	---	---	---	---	3.5	2.5	3.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01186000 WEST BRANCH FARMINGTON RIVER AT RIVERTON, CONN.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	2.5	3.0	4.0	2.5	3.0	4.5	2.0	3.0	9.0	7.0	8.0
2	4.0	2.5	3.0	4.0	2.5	3.0	3.5	2.0	2.5	8.0	7.5	7.5
3	4.0	2.0	2.5	3.5	2.0	2.5	3.0	2.0	2.5	11.5	7.0	9.0
4	3.5	2.0	2.5	4.5	2.0	3.0	3.5	1.5	2.0	8.5	7.5	8.5
5	3.0	2.0	2.5	5.0	2.0	3.0	2.5	1.5	2.0	8.5	7.0	8.0
6	3.5	2.5	3.0	4.0	2.5	3.0	3.0	2.0	2.5	10.5	7.5	8.5
7	3.5	2.5	3.0	4.0	2.5	3.0	3.0	2.0	2.0	11.0	8.0	9.5
8	3.5	2.0	2.5	4.0	1.5	3.0	3.5	2.0	2.5	11.0	8.0	9.5
9	3.0	2.0	2.5	4.0	1.5	2.5	4.0	1.5	2.5	12.0	8.5	10.0
10	3.5	1.5	2.5	3.5	2.0	2.5	4.0	1.5	2.5	10.5	8.0	9.0
11	2.5	2.0	2.5	4.0	2.5	3.0	5.5	2.0	3.5	11.0	8.5	9.5
12	2.5	2.0	2.0	3.0	3.0	3.0	5.0	2.0	3.0	11.0	8.5	9.5
13	3.5	2.0	2.5	3.5	2.5	3.0	4.0	2.0	3.0	11.0	8.5	9.5
14	4.0	1.5	2.5	3.0	2.0	2.5	6.0	2.0	3.5	11.0	9.0	10.0
15	4.0	2.5	3.0	3.5	2.0	2.5	4.0	2.5	3.5	11.5	8.5	9.5
16	3.5	3.0	3.0	5.0	2.0	3.0	5.5	3.0	4.0	11.5	8.5	10.0
17	4.5	2.5	3.0	5.5	2.0	3.0	6.0	3.0	4.5	11.5	9.0	10.0
18	3.5	2.5	3.0	5.5	2.0	3.0	5.0	3.5	4.0	13.0	9.0	10.5
19	4.0	2.5	3.0	4.0	2.5	3.5	5.5	4.0	4.5	15.0	9.5	12.5
20	5.0	2.5	3.0	3.0	2.0	2.5	7.0	3.5	4.5	16.5	12.5	14.5
21	4.5	2.5	3.0	4.5	1.5	3.0	6.0	4.0	4.5	17.5	13.5	15.5
22	5.0	2.0	3.0	3.5	2.5	3.0	7.0	3.5	4.5	15.5	12.5	14.0
23	3.5	2.5	3.0	5.5	3.0	4.0	---	---	---	17.0	13.5	15.0
24	3.0	2.0	2.5	3.5	3.0	3.0	---	---	---	15.0	14.5	15.0
25	3.0	2.0	2.5	5.0	3.0	4.0	---	---	---	---	---	---
26	4.0	2.0	3.0	4.5	1.0	3.0	9.0	6.0	7.5	---	---	---
27	4.5	2.5	3.0	2.5	1.0	1.5	7.5	6.0	6.5	---	---	---
28	4.5	2.0	3.0	3.0	1.0	2.0	8.5	5.5	7.0	---	---	---
29	---	---	---	2.5	1.5	2.0	9.0	6.0	7.0	---	---	---
30	---	---	---	3.0	2.0	2.5	10.0	6.0	8.0	---	---	---
31	---	---	---	3.5	1.5	2.0	---	---	---	---	---	---
MONTH	5.0	1.5	3.0	5.5	1.0	3.0	10.0	1.5	4.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	16.5	12.0	13.5	19.5	13.5	17.0	18.0	15.0	16.0
2	17.5	13.0	5.5	17.5	11.0	14.0	21.0	15.5	18.0	17.5	15.5	16.5
3	15.0	11.5	13.0	18.0	12.5	15.0	22.0	16.0	19.0	17.5	14.5	16.0
4	15.5	11.0	13.0	19.5	13.5	16.0	17.5	14.5	15.5	19.0	14.0	16.0
5	12.0	10.5	11.0	20.0	14.0	17.0	21.0	15.0	18.0	20.0	15.0	17.5
6	12.5	10.5	11.5	20.0	14.5	16.5	17.5	15.5	16.5	18.5	16.0	17.0
7	13.5	11.5	12.5	20.0	14.5	17.0	16.0	13.5	15.0	20.0	15.5	17.5
8	12.5	11.0	12.0	20.5	15.5	17.0	14.0	13.0	13.5	19.0	16.0	17.5
9	13.0	10.5	11.5	20.0	15.0	16.5	15.5	12.5	14.0	19.0	14.5	17.0
10	14.5	9.0	12.0	20.0	15.5	17.0	17.0	12.5	14.5	19.0	14.5	16.5
11	16.0	9.5	12.5	19.5	14.5	16.5	17.5	13.5	15.0	18.0	15.5	17.0
12	12.0	11.0	11.5	17.5	15.5	16.5	17.0	13.5	15.0	18.0	16.0	17.0
13	14.5	12.0	12.5	17.0	15.5	16.0	17.0	13.5	15.0	18.0	15.5	16.5
14	13.5	9.5	11.5	19.0	16.0	18.0	18.5	15.5	16.5	17.5	15.0	16.0
15	11.0	9.5	10.0	19.0	16.5	18.0	17.5	14.0	16.0	17.5	14.5	16.0
16	10.0	9.0	9.5	18.5	11.5	14.0	16.5	14.0	15.5	17.0	15.0	16.5
17	12.0	9.5	10.5	16.0	12.5	14.0	14.5	14.0	14.5	18.5	16.0	17.0
18	13.0	10.0	11.5	20.5	14.0	16.5	17.0	14.0	15.5	17.5	17.0	17.5
19	17.5	12.0	14.5	15.5	11.5	13.5	17.0	14.0	15.5	18.0	17.0	17.5
20	16.0	12.5	14.0	16.0	13.5	14.5	17.0	14.5	15.5	19.0	17.5	18.0
21	16.0	11.0	13.5	19.5	14.0	16.5	17.0	14.0	15.5	19.0	17.0	18.0
22	17.0	12.0	14.0	15.0	11.5	13.0	19.0	13.5	15.5	18.5	16.5	17.5
23	19.5	13.0	14.5	13.5	10.0	11.5	19.0	13.0	16.5	17.5	16.5	17.0
24	20.0	14.5	17.5	12.5	10.5	11.0	16.5	15.5	16.0	16.5	13.5	15.5
25	19.5	15.0	16.5	12.5	10.5	11.5	16.5	15.5	16.0	13.5	13.5	13.5
26	17.0	12.0	14.5	14.0	11.5	12.5	16.5	15.5	16.0	14.5	13.5	14.0
27	16.5	12.5	14.0	14.0	10.5	12.0	19.0	16.0	17.0	15.5	13.5	14.5
28	16.5	14.0	15.0	16.0	11.5	13.5	19.0	15.5	17.0	16.0	14.0	14.5
29	17.5	10.5	14.5	15.5	12.5	14.0	19.0	15.5	17.0	17.5	13.0	15.5
30	18.0	12.0	15.0	16.5	11.0	13.5	17.0	16.0	16.5	17.0	16.0	16.5
31	---	---	---	18.5	12.5	15.5	18.0	15.5	16.0	---	---	---
MONTH	20.0	9.0	12.5	20.5	10.0	15.0	22.0	12.5	16.0	20.0	13.0	16.5
YEAR	22.0	1.0	10.0									

01186400 SANDY BROOK AT ROBERTSVILLE, CONN.

LOCATION.--Lat 41°58'42", long 73°02'44", Litchfield County, on right bank at downstream side of bridge on State Highway 8 at Robertsville, 0.7 mi (1.1 km) upstream from mouth, 1.7 mi (2.7 km) downstream from Wrights Brook, and 1.8 mi (2.9 km) northwest of Riverton.

DRAINAGE AREA.--34.9 mi^2 (90.4 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-67. October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 561.76 ft (171.224 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 81.8 ft^3/s (2.317 m^3/s), 31.83 in/yr (808 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,890 ft^3/s (53.5 m^3/s) Sept. 27, gage height, 5.86 ft (1.786 m); minimum, 7.2 ft^3/s (0.20 m^3/s) Aug. 29, gage height, 0.83 ft (0.253 m).

Period of record: Maximum discharge, 2,680 ft^3/s (75.9 m^3/s), rev., Dec. 21, 1973, gage height, 6.76 ft (2.060 m); minimum, 1.6 ft^3/s (0.045 m^3/s) July 28, 29, 1971; minimum gage height observed, 0.53 ft (0.162 m) Sept. 4, 1964.

Flood of Aug. 19, 1955, reached a discharge of 10,100 ft^3/s (286 m^3/s), by contracted-opening measurement 1 mi (2 km) upstream, drainage area, 34.1 mi^2 (88.3 km^2).

REVISIONS.--The figures of peak discharge for water years 1968-74 have been revised as shown in the following table. They supersede figures published in WRD Connecticut, 1968-70, 1972-74, and WSP 2101.
REVISED PEAK DISCHARGE.--1968: Dec. 12 (1430) 870 cfs (4.32 ft), Mar. 20 (1730) 680 cfs (3.94 ft); (Apr. 25 (0300) 950 cfs (4.45 ft).
1969: Dec. 4 (2030) 675 cfs (3.93 ft); Mar. 25 (1100) 660 cfs (3.90 ft); Apr. 5 (2230) 1,510 cfs (5.33 ft); Apr. 23 (0100) 1,660 cfs (5.55 ft); June 15 (2100) 740 cfs (4.06 ft); July 29 (2100) 1,200 cfs (4.87 ft); Aug. 5 (0300) 1,520 (5.34 ft).
1970: Dec. 11 (0900) 850 cfs (4.28 ft); Feb. 3 (0930) 884 cfs (4.34 ft); Apr. 2 (2000) 1,030 cfs (4.58 ft).
1972: Mar. 22 (2000) 944 cfs (4.44 ft); Apr. 20 (1430) 1,100 cfs (4.70 ft); June 24 (0600) 950 cfs (4.45 ft); June 30 (1230) 1,060 (4.64 ft); July 3 (1900) 1,330 cfs (5.07 ft).
1973: Nov. 26 (1230) 902 cfs (4.37 ft); Dec. 6 (2130) 914 cfs (439 ft); Jan. 21 (0930) 1,030 cfs (4.58 ft); Feb. 3 (0100) 1,210 (4.89 ft); Mar. 17 (1730) 790 cfs (4.16 ft); June 30 (0900) 800 cfs (4.18 ft); July 5 (0900) 950 cfs (4.45 ft).
1974: Dec. 21 (1330) 2,680 cfs (6.76 ft).

PEAK DISCHARGE.--(BASE, 700 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-08	1900	4.16	790
03-20	0900	5.20	1,420
04-03	1600	4.90	1,220
05-13	2030	3.98	700
09-27	0330	5.86	1,890

REMARKS.--Records excellent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	101	39	44	83	125	120	47	33	8.7	17	40
2	51	74	107	43	71	103	119	53	38	7.9	13	27
3	37	62	153	42	61	92	527	60	36	7.4	11	24
4	31	67	104	41	56	81	573	87	57	8.7	10	17
5	25	86	78	40	53	78	286	172	54	7.1	11	17
6	22	124	64	38	52	69	196	117	183	6.4	11	14
7	19	103	53	44	51	68	153	170	140	5.9	39	13
8	20	94	281	44	51	94	131	124	98	5.7	108	11
9	31	77	515	79	49	74	116	97	68	7.4	131	11
10	23	64	273	98	49	55	108	96	50	16	71	10
11	17	43	160	131	49	63	106	114	37	13	43	9.6
12	14	51	113	259	48	61	100	133	136	12	37	14
13	13	133	104	283	48	87	92	357	310	78	27	27
14	12	120	98	209	47	90	83	369	168	300	21	23
15	13	94	89	140	45	73	82	202	98	230	16	17
16	48	74	81	108	44	66	81	155	72	110	16	13
17	93	53	134	85	42	72	83	124	63	59	17	11
18	58	45	122	93	48	86	79	97	61	39	16	10
19	39	40	97	181	48	155	86	83	47	26	14	17
20	30	42	81	134	53	1180	90	68	39	90	15	31
21	26	160	71	104	47	543	77	57	29	418	15	30
22	24	140	66	87	45	294	64	50	25	196	10	24
23	23	87	61	72	62	239	58	40	21	96	8.4	49
24	20	69	60	69	343	247	85	33	18	57	8.7	283
25	23	66	58	85	515	324	106	30	16	104	10	690
26	33	57	56	218	340	278	94	27	13	86	11	637
27	28	45	54	157	223	168	77	31	12	67	11	1140
28	27	46	54	114	155	136	67	46	11	50	8.7	462
29	54	43	52	98	---	116	57	33	11	40	7.6	230
30	46	39	47	136	---	145	51	29	10	33	82	128
31	111	---	45	106	---	144	---	33	---	23	74	---
TOTAL	1093	2299	3370	3382	2778	5406	3947	3134	1954	2208.2	890.4	4029.6
MEAN	35.3	76.6	109	109	99.2	174	132	101	65.1	71.2	28.7	134
MAX	111	160	515	283	515	1180	573	369	310	418	131	1140
MIN	12	39	39	38	42	55	51	27	10	5.7	7.6	9.6
CFSM	1.01	2.19	3.12	3.12	2.84	4.99	3.78	2.89	1.87	2.04	.82	3.84
IN.	1.17	2.45	3.59	3.60	2.96	5.76	4.21	3.34	2.08	2.35	.95	4.30

CAL YR 1974 TOTAL 27019.2 MEAN 74.0 MAX 515 MIN 2.4 CFSM 2.12 IN 28.80
WTR YR 1975 TOTAL 34491.2 MEAN 94.5 MAX 1180 MIN 5.7 CFSM 2.71 IN 36.76

01186500 STILL RIVER AT ROBERTSVILLE, CONN.

LOCATION.--Lat 41°58'04", long 73°02'04", Litchfield County, on left bank 1,500 ft (457 m) downstream from Sandy Brook, 1 mi (2 km) southeast of Robertsville, 1 mi (2 km) northwest of Riverton, and 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--84.7 mi^2 (219.4 km^2).

PERIOD OF RECORD.--July 1948 to September 1967, July 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 510.24 ft (155.521 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage).--25 years, 169 ft^3/s (4.786 m^3/s), 27.09 in/yr (688 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,210 ft^3/s (119 m^3/s) Sept. 26, 27, gage height, 7.64 ft (2.329 m); minimum, 12 ft^3/s (0.34 m^3/s) July 5, 6, gage height, 1.45 ft (0.442 m).

Period of record: Maximum discharge, 44,000 ft^3/s (1,250 m^3/s) Aug. 19, 1955, gage height, 16.48 ft (5.023 m), from floodmark, from rating curve extended above 5,600 ft^3/s (159 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.20 ft^3/s (0.006 m^3/s) Sept. 14, 1957; minimum daily, 0.30 ft^3/s (0.008 m^3/s) Sept. 14, 1957; minimum gage height, 0.29 ft (0.088 m) Aug. 8, 1955.

REMARKS.--Records good. Flow regulated by power plant, Mad River and Sucker Brook Detention Reservoirs, and Highland Lake (see p.211). See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	178	74	105	194	262	301	118	259	24	52	89
2	112	128	260	100	166	223	302	128	105	23	38	84
3	73	102	342	99	165	222	1280	129	95	15	29	99
4	80	137	227	100	159	195	1270	167	139	14	45	84
5	39	170	170	103	150	184	744	352	128	13	54	88
6	39	227	126	102	145	184	471	244	356	13	46	52
7	58	180	130	121	135	174	385	344	274	26	114	57
8	61	152	573	114	131	224	338	262	177	16	218	75
9	78	120	1020	209	128	173	308	199	180	17	275	97
10	81	91	527	256	120	170	284	180	160	27	139	99
11	71	97	322	297	120	164	278	232	141	25	88	91
12	40	111	257	535	120	162	236	259	283	32	82	85
13	42	260	232	585	115	225	219	724	632	117	55	76
14	66	230	204	431	115	224	233	745	363	604	44	68
15	68	179	184	300	117	171	232	439	234	501	63	87
16	152	121	191	252	116	155	227	353	212	260	30	74
17	237	100	321	217	119	193	217	269	164	153	40	74
18	163	108	284	243	155	214	163	221	155	97	51	72
19	99	99	218	380	158	340	163	227	135	74	35	69
20	83	107	187	309	153	2250	165	198	104	141	35	70
21	98	327	150	265	124	1130	166	177	67	700	29	49
22	93	278	141	239	114	720	149	166	61	413	31	78
23	87	160	130	209	146	587	138	145	75	226	23	102
24	80	134	125	204	734	495	192	84	67	135	24	698
25	78	146	120	221	1010	605	237	77	57	194	28	1440
26	63	123	120	468	627	513	191	70	47	174	28	1790
27	55	106	115	363	420	345	158	99	48	119	52	2560
28	69	99	115	276	300	275	158	118	24	112	36	1180
29	96	81	112	269	---	248	147	88	23	97	28	816
30	87	80	111	340	---	322	126	82	38	79	181	596
31	189	---	105	266	---	337	---	89	---	66	149	---
TOTAL	2820	4431	7193	7978	6256	11686	9478	6985	4803	4507	2142	10899
MEAN	91.0	148	232	257	223	377	316	225	160	145	69.1	363
MAX	237	327	1020	585	1010	2250	1280	745	632	700	275	2560
MIN	39	80	74	99	114	155	126	70	23	13	23	49
(†)	-14.2	-1.5	+12.5	+9.6	-10.4	+10.7	-5.9	+3.6	-2.5	+5.7	-1.0	-15.5
MEAN‡	76.8	146	244	267	213	388	310	229	158	151	68.1	348
CFSM‡	0.91	1.72	2.88	3.15	2.51	4.58	3.66	2.70	1.87	1.78	0.80	4.11
IN‡	1.05	1.92	3.32	3.63	2.61	5.28	4.08	3.11	2.09	2.05	0.92	4.59

CAL YR 1974	TOTAL	63871.0	MEAN 175	MAX	1020	MIN	5.3	MEAN‡ 175	CFSM‡ 2.07	IN‡ 27.97
WTR YR 1975	TOTAL	79178.0	MEAN 217	MAX	2560	MIN	13	MEAN‡ 216	CFSM‡ 2.55	IN‡ 34.65

†Change in contents in Mad River and Sucker Brook Detention Reservoirs, and Highland Lake, equivalent in cubic feet per second; contents furnished by Corps of Engineers and Union Pin Company.

‡Adjusted for change in contents.

01186800 STILL RIVER AT RIVERTON, CONN.

LOCATION.--Lat 41°57'34", long 73°01'12", Litchfield County, at bridge on State Highway 20, at Riverton.

DRAINAGE AREA.--86.2 mi^2 (223.3 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1971, July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
01...	1025	230	7.2	11.0	11.0	10.9	98	5.2	10	210	30	40
NOV.												
05...	0920	254	6.6	10.0	11.0	10.4	94	4.8	10	170	20	20
DEC.												
16...	0920	186	7.1	-.5	1.0	14.2	100	6.6	0	130	40	20
JAN.												
14...	1135	438	7.0	-3.5	.5	15.1	104	5.7	0	180	40	10
FEB.												
11...	1015	83	6.9	-3.5	.0	14.6	100	6.4	0	110	30	10
MAR.												
18...	1000	175	7.2	3.5	2.0	14.1	101	5.6	0	90	30	10
APR.												
09...	0955	320	7.0	1.5	2.0	13.9	100	4.8	0	90	30	10
MAY												
12...	1330	273	7.4	18.0	13.0	10.8	102	3.7	0	140	20	0
JUNE												
16...	1405	250	7.1	18.0	17.5	9.5	99	3.9	10	210	30	0
JULY												
21...	1430	960	6.9	26.5	23.0	8.4	96	4.7	0	300	30	0
AUG.												
04...	1410	120	7.1	23.0	24.0	8.4	99	5.9	20	290	30	10
SEP.												
16...	1505	100	7.2	16.5	15.5	10.1	100	3.6	10	150	10	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
01...	6.2	2.0	16	0	13	7.8	7.9	.01	.12	.42	.54	.45
NOV.												
05...	6.5	2.0	19	0	16	9.4	8.6	.00	.17	.30	.39	.35
DEC.												
16...	6.0	2.0	16	0	13	11	8.2	.00	.21	.17	.22	.47
JAN.												
14...	5.2	1.9	11	0	9	9.8	20	.00	.15	.14	.18	.34
FEB.												
11...	6.0	2.2	16	0	13	9.3	11	.01	.21	.22	.28	.35
MAR.												
18...	6.3	2.1	18	0	15	9.6	16	.01	.20	.21	.27	.41
APR.												
09...	9.0	1.9	9	0	7	8.8	12	.01	.14	.14	.18	.28
MAY												
12...	6.8	1.8	18	0	15	8.8	10	.01	.09	.08	.10	.32
JUNE												
16...	6.5	1.8	17	0	14	8.7	11	.00	.21	.10	.13	.46
JULY												
21...	5.3	1.3	14	0	11	6.6	5.8	.00	.09	.06	.08	.64
AUG.												
04...	17	4.0	32	0	26	7.9	25	.01	.95	.16	.21	.67
SEP.												
16...	11	1.7	26	0	21	8.0	15	.02	.47	.12	.15	.48

01186800 STILL RIVER AT RIVERTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
01...	.03	.57	2.5	.07	87	63	39.1	.09	24	11	76	40
NOV.												
05...	.05	.52	2.3	.10	58	58	39.8	.08	24	9	83	30
DEC.												
16...	.30	.68	3.0	.06	49	64	32.1	.09	23	10	83	7
JAN.												
14...	.20	.49	2.2	.03	81	81	95.8	.11	21	12	90	20
FEB.												
11...	.13	.56	2.5	.08	61	61	13.7	.08	24	11	91	20
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
18...	.20	.61	2.7	.06	71	67	31.7	.09	24	10	98	20
APR.												
09...	.14	.42	1.9	.04	65	68	58.8	.09	30	23	88	6
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
12...	.24	.41	1.8	.06	43	23	17.0	.03	24	10	80	15
JUNE												
16...	.36	.67	3.0	.08	66	53	35.8	.07	24	10	90	22
JULY												
21...	.58	.73	3.2	.09	71	57	148	.08	19	7	66	46
AUG.												
04...	.51	1.6	7.2	.24	124	106	34.3	.14	59	33	172	32
SEP.												
16...	.36	.95	4.2	.14	84	71	19.2	.10	34	13	125	2

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
01...	2	1.6	2000	280	35	11	1	.0	4.5	1.5	--
NOV.											
05...	1	7.6	1200	48	8	6.4	0	.0	3.3	.0	0
DEC.											
16...	1	2.0	300	17	2	4.5	0	.0	--	--	--
JAN.											
14...	1	1.8	1000	100	25	6.5	0	.0	1.7	1.3	--
FEB.											
11...	1	3.2	340	17	41	--	0	.0	.0	.0	--
26...	--	--	--	--	--	5.0	--	--	--	--	--
MAR.											
18...	10	1.8	160	10	5	4.3	0	.0	.0	.0	--
APR.											
09...	1	1.4	140	26	11	--	0	.0	.0	.0	--
29...	--	--	--	--	--	7.6	--	--	--	--	--
MAY											
12...	1	1.1	3600	170	52	3.8	0	.0	.0	.0	--
JUNE											
16...	5	2.2	3500	120	69	6.1	<1	.0	.0	.0	--
JULY											
21...	3	2.8	4700	1400	1100	8.7	0	.0	.0	.0	--
AUG.											
04...	2	4.1	8000	72	320	12	0	.1	.0	.0	--
SEP.											
16...	2	2.6	2200	88	72	6.8	0	.0	.0	.0	--

01186800 STILL RIVER AT RIVERTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)
OCT. 01...	.0	0	.4	.3	.4	.2	.0	.0	.0	.0

DATE	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)
OCT. 01...	0	0	0	0	0	1	7	100	4.6	4300

DATE	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 01...	0	0	4	5	36000	8	1600	.0	12

01187300 HUBBARD RIVER NEAR WEST HARTLAND, CONN.

LOCATION.--Lat 42°02'14", long 72°56'22", Hartford County, on left bank at Massachusetts-Connecticut State line, 800 ft (244 m) upstream from bridge on State Highway 20, 0.5 mi (0.8 km) upstream from confluence with Valley Brook, and 2.6 mi (4.2 km) northeast of West Hartland.

DRAINAGE AREA.--19.9 mi^2 (51.5 km^2).

PERIOD OF RECORD.--January 1938 to September 1955, September 1956 to current year. Monthly discharge only for periods January 1938 to September 1955, October 1956 to September 1960, published in WSP 1721. Daily figures for the periods January 1938 to September 1955, September 1956 to September 1960, available upon request.

GAGE.--Water-stage recorder and stepped sharp-crested weir. Datum of gage is 594.62 ft (181.240 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 38.5 ft^3/s (1.090 m^3/s), 26.27 in/yr (667 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,040 ft^3/s (57.8 m^3/s) Sept. 26, gage height, 8.14 ft (2.481 m); minimum, 1.7 ft^3/s (0.048 m^3/s) July 9, gage height, 0.22 ft (0.067 m).

Period of record: Maximum discharge, 10,500 ft^3/s (297 m^3/s) Aug. 19, 1955, gage height, 16.5 ft (5.03 m), from rating curve extended above 300 ft^3/s (8.50 m^3/s) on basis of contracted-opening measurement of peak flow; minimum daily, 0.2 ft^3/s (0.006 m^3/s) Sept. 10, 1953, Aug. 16-21, 1957.

PEAK DISCHARGE.--(BASE, 500 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-08	1830	4.71	512
03-20	0600	6.36	1,040
04-03	1630	6.31	1,020
07-14	1500	5.42	706
07-21	0600	5.06	600
09-24	2130	5.91	864
09-26	1630	8.14	2,040

REMARKS.--Records good.

COOPERATION.--Gage-height record furnished by Water Bureau, Metropolitan District Commission, Hartford, Connecticut.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	40	20	24	47	67	67	23	14	3.0	6.0	23
2	24	30	79	23	37	57	69	26	14	2.8	5.1	16
3	18	25	39	23	31	49	417	33	11	2.7	4.3	13
4	15	31	65	26	31	41	270	43	16	2.7	4.1	10
5	12	47	47	22	26	37	116	107	16	2.5	4.3	8.4
6	11	72	34	23	32	33	83	65	90	2.2	4.1	7.4
7	9.7	49	29	24	27	31	72	71	64	2.1	28	7.4
8	8.7	32	200	24	26	51	66	54	38	2.1	147	6.2
9	8.2	26	281	49	24	35	61	39	24	2.3	124	7.1
10	8.0	23	118	60	24	32	53	33	18	7.1	48	5.8
11	7.6	21	75	93	24	29	51	39	14	12	26	5.0
12	7.4	22	61	167	24	27	49	41	69	9.5	23	7.4
13	7.4	88	55	168	33	46	44	198	185	30	18	18
14	7.2	66	54	112	23	46	39	168	86	328	13	13
15	7.2	52	49	80	19	35	40	81	54	188	9.5	9.3
16	39	37	40	60	19	31	41	67	37	73	7.8	7.6
17	69	30	84	50	20	39	40	57	36	39	8.6	7.1
18	37	27	69	68	20	52	40	42	26	24	8.4	6.7
19	24	24	59	94	24	96	51	33	20	16	7.1	9.3
20	19	30	47	68	26	802	52	26	16	87	5.6	18
21	16	122	39	59	24	260	38	22	12	368	4.4	17
22	14	79	37	51	23	137	28	20	9.1	116	3.8	14
23	13	52	33	39	35	113	26	18	7.1	58	3.5	26
24	12	40	32	36	292	136	47	16	5.8	33	3.5	262
25	15	36	33	51	339	197	60	13	4.6	77	4.4	520
26	29	32	27	171	174	158	47	11	3.8	51	5.1	595
27	26	23	31	74	107	88	37	13	3.3	27	6.7	652
28	22	26	28	59	81	71	33	18	3.1	18	5.6	189
29	21	23	26	56	---	64	28	12	3.0	12	5.0	104
30	19	21	24	79	---	82	25	10	2.7	9.3	70	76
31	48	---	24	58	---	78	---	15	---	7.4	46	---
TOTAL	610.4	1226	1899	1991	1612	3020	2090	1414	902.5	1612.7	659.9	2660.7
MEAN	19.7	40.9	61.3	64.2	57.6	97.4	69.7	45.6	30.1	52.0	21.3	88.7
MAX	69	122	281	171	339	802	417	198	185	368	147	652
MIN	7.2	21	20	22	19	27	25	10	2.7	2.1	3.5	5.0
CFSM	.99	2.06	3.08	3.23	2.89	4.89	3.50	2.29	1.51	2.61	1.07	4.46
IN.	1.14	2.29	3.55	3.72	3.01	5.65	3.91	2.64	1.69	3.01	1.23	4.97

CAL YR 1974 TOTAL 14694.3 MEAN 40.3 MAX 300 MIN 2.2 CFSM 2.03 IN 27.47
WTR YR 1975 TOTAL 19698.2 MEAN 54.0 MAX 802 MIN 2.1 CFSM 2.71 IN 36.82

01187980 FARMINGTON RIVER AT COLLINSVILLE, CONN.

LOCATION.--Lat 41°47'57", long 72°55'33", Litchfield County, on left bank at abandoned hydroelectric plant 0.8 mi (1.3 km) south of Collinsville, and at mile 39.8 (64.0 km).

DRAINAGE AREA.--360 mi^2 (932 km^2).

PERIOD OF RECORD.--Discharge: November 1962 to current year.
Chemical analyses: October 1974 to September 1975.
Water temperatures: October 1974 to September 1975.

GAGE.--Water-stage recorder. Datum of gage is 245.22 ft (74.743 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage and diversion).--12 years, 699 ft^3/s (19.80 m^3/s), 26.35 in/yr (669 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,000 ft^3/s (340 m^3/s) Sept. 26, gage height, 13.69 ft (4.173 m); minimum daily, 146 ft^3/s (4.13 m^3/s) Aug. 22.
Specific conductance: Maximum recorded, 131 micromhos Jan. 19; minimum recorded, 41 micromhos Sept. 26.
Water temperatures: Maximum, 27.0°C Aug. 3; minimum, 1.0°C on many days during winter periods.

Period of record: Maximum discharge, 13,100 ft^3/s (371 m^3/s) Dec. 21, 1973, gage height, 14.23 ft (4.337 m); minimum, 4.7 ft^3/s (0.13 m^3/s) Aug. 18, 1966, gage height, 2.06 ft (0.628 m); minimum daily, 5.6 ft^3/s (0.16 m^3/s) July 11, 1965.
Specific conductance: Maximum recorded, 131 micromhos Jan. 19, 1975; minimum recorded, 41 micromhos Sept. 26, 1975.
Water temperatures: Maximum, 27.0°C Aug. 3, 1975; minimum 1.0°C on many days during winter periods.

Flood of Aug. 19, 1955, reached a stage of 35.6 ft (10.85 m), from floodmark, discharge, 140,000 ft^3/s (3,960 m^3/s) by slope-area measurement 0.5 mi (0.8 km) downstream.

REMARKS.--Records good except those for period of no gage-height record Apr. 3-24, which are fair. Flow regulated by Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River Detention Reservoir, Sucker Brook Detention Reservoir, Highland Lake, Barkhamsted, East Branch and Nepaug Reservoirs (see p.211), and by diversion for municipal supply from Barkhamsted and Nepaug Reservoirs.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	665	592	480	500	877	956	1080	451	202	285	337	469
2	528	515	895	480	766	860	1080	436	291	217	285	469
3	454	473	1090	447	709	815	3000	458	271	197	250	511
4	433	480	815	450	548	782	2800	477	350	170	280	600
5	418	544	604	440	550	755	2700	866	306	168	370	536
6	367	669	557	404	550	787	3500	771	793	166	462	508
7	367	565	511	465	520	782	3500	988	919	158	591	504
8	370	519	931	462	520	837	2500	944	694	173	755	504
9	390	488	2040	591	520	766	1200	729	540	154	877	544
10	429	436	1200	798	492	745	1200	907	476	210	600	500
11	411	425	854	1030	500	809	900	988	373	170	504	436
12	458	451	776	1680	500	1130	800	793	528	173	469	447
13	340	734	724	1740	500	1190	750	1640	1470	250	462	477
14	363	714	699	1600	500	1130	750	2270	1550	1880	488	422
15	393	627	665	1100	500	524	750	1740	1240	1290	477	436
16	574	596	646	900	500	473	750	1410	1100	1020	488	433
17	739	544	837	750	500	508	850	956	981	776	484	436
18	536	532	798	944	504	540	850	804	724	508	492	536
19	433	532	699	1350	540	591	900	709	565	390	484	557
20	373	544	660	1270	528	3870	900	734	515	433	477	574
21	363	913	600	1000	469	2300	900	665	370	1530	407	565
22	370	889	574	793	458	2090	800	613	387	1430	146	565
23	360	689	548	750	492	1680	650	544	390	1120	215	623
24	519	627	528	700	1480	1400	700	411	393	877	373	1170
25	532	627	536	739	2640	1570	684	318	363	889	393	2900
26	540	604	515	1270	2080	1440	709	318	325	776	404	4040
27	515	565	524	1110	1380	1370	627	340	301	623	418	6080
28	492	544	504	969	1080	1400	574	377	309	582	350	3290
29	536	504	510	1000	---	1320	548	306	297	519	327	2240
30	532	492	510	1090	---	1260	515	288	315	484	565	2060
31	745	---	500	975	---	1220	---	370	---	418	641	---
TOTAL	14545	17434	22330	27797	21203	35900	37467	23621	17338	18036	13871	33432
MEAN	469	581	720	897	757	1158	1249	762	578	582	447	1114
MAX	745	913	2040	1740	2640	3870	3500	2270	1550	1880	877	6080
MIN	340	425	480	404	458	473	515	288	202	154	146	422
(†)	+47.5	+134.2	+325.2	+173.8	+213.3	+381.9	+104.1	+115.2	+36.1	+117.3	-81.8	+294.0
MEAN‡	516	715	1045	1071	970	1540	1353	877	614	699	365	1408
CFSM‡	1.43	1.99	2.90	2.98	2.69	4.28	3.76	2.44	1.71	1.94	1.01	3.91
IN‡	1.65	2.22	3.34	3.44	2.80	4.93	4.20	2.81	1.91	2.24	1.16	4.36

CAL YR 1974	TOTAL 260167	MEAN 713	MAX 2350	MIN 130	MEAN‡ 765	CFSM‡ 2.12	IN‡ 28.82
WTR YR 1975	TOTAL 282974	MEAN 775	MAX 6080	MIN 146	MEAN‡ 930	CFSM‡ 2.58	IN‡ 35.06

†Change in contents in Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River Detention Reservoir, Sucker Brook Detention Reservoir, Highland Lake, Barkhamsted, East Branch and Nepaug Reservoirs, and diversion from Barkhamsted and Nepaug Reservoirs, equivalent in cubic feet per second; furnished by the Metropolitan District Commission, Corps of Engineers, Union Pin Company, and Massachusetts Department of Natural Resources, Division of Forests and Parks.

‡Adjusted for diversion and change in contents.

01187980 FARMINGTON RIVER AT COLLINSVILLE, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	78	70	75	93	85	87	84	81	83	90	87	89
2	82	77	80	96	87	93	89	84	87	96	88	89
3	87	82	84	92	87	89	94	82	88	99	90	94
4	88	82	86	92	86	90	85	82	83	91	86	88
5	91	83	88	90	87	89	83	81	82	90	85	87
6	97	87	94	90	85	87	85	81	83	91	84	87
7	89	83	86	87	85	86	86	82	84	88	86	87
8	91	84	88	89	86	87	92	85	87	90	84	86
9	98	87	93	90	84	86	92	68	77	99	91	96
10	94	86	90	89	84	86	72	69	71	110	94	104
11	91	87	89	89	83	86	77	71	75	105	88	98
12	90	88	89	90	85	88	82	77	80	90	81	85
13	94	89	91	90	83	87	86	81	83	81	76	78
14	91	85	88	85	81	83	86	82	84	88	76	81
15	94	91	91	85	82	83	83	81	82	85	82	84
16	96	88	92	84	81	83	84	82	83	85	82	83
17	90	85	87	83	81	82	93	83	87	83	80	82
18	90	85	87	86	82	83	111	94	105	84	78	81
19	90	84	87	86	82	84	94	89	92	131	86	103
20	91	88	89	88	83	86	91	87	89	104	85	89
21	93	87	89	88	82	85	88	85	86	93	93	93
22	93	86	89	82	78	80	87	86	86	89	88	89
23	96	90	93	81	79	80	87	84	86	89	85	88
24	94	89	91	82	79	81	88	86	87	86	84	85
25	91	86	89	84	82	83	87	84	86	94	85	90
26	91	87	89	83	82	82	86	82	83	104	92	97
27	92	84	88	84	81	82	90	82	88	91	88	90
28	91	85	89	87	83	85	91	88	89	87	84	85
29	92	88	90	86	83	84	88	85	86	89	83	85
30	93	88	90	84	80	82	91	87	88	103	87	96
31	93	84	88	---	---	---	88	85	87	91	84	86
MONTH	98	70	88	96	78	85	111	68	85	131	76	89

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	87	83	85	82	80	81	82	78	80	74	66	71
2	85	83	84	83	80	81	83	79	82	75	70	72
3	85	83	83	82	79	81	89	70	81	76	69	73
4	87	82	85	82	78	80	72	65	78	73	71	72
5	89	84	87	81	78	80	73	68	71	71	65	68
6	89	87	88	82	78	80	75	72	73	66	64	65
7	100	87	92	82	79	81	79	74	76	67	64	65
8	105	92	99	82	79	80	83	77	79	65	63	64
9	91	86	88	84	77	81	80	78	79	68	63	66
10	89	83	85	80	76	78	81	79	80	68	64	66
11	92	85	89	81	78	79	80	80	80	68	64	66
12	92	90	91	85	79	83	81	78	80	68	64	66
13	92	89	91	91	82	86	78	77	77	68	63	66
14	91	84	88	88	78	83	78	76	77	62	59	61
15	98	92	96	92	79	86	80	77	79	65	62	63
16	95	93	94	109	92	98	80	77	78	65	63	64
17	105	94	99	120	98	108	81	76	78	67	64	66
18	103	94	99	100	92	97	79	77	78	67	64	65
19	118	97	109	97	91	94	79	76	77	69	65	67
20	120	111	115	97	72	81	77	75	76	73	67	70
21	111	101	105	71	69	70	79	74	75	69	67	68
22	104	95	100	71	70	70	76	72	74	71	68	70
23	101	97	98	73	70	72	81	74	78	73	69	71
24	99	90	96	74	72	73	81	79	80	78	71	76
25	90	80	86	78	74	76	76	69	72	81	78	79
26	79	75	77	75	71	74	70	66	68	79	77	78
27	81	78	79	76	71	73	68	65	67	80	78	79
28	81	78	79	80	76	78	68	64	66	---	---	---
29	---	---	---	81	78	80	71	66	69	---	---	---
30	---	---	---	83	79	81	73	67	70	---	---	---
31	---	---	---	79	78	79	---	---	---	---	---	---
MONTH	120	75	92	120	69	81	89	64	76	81	59	69

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	78	73	76	84	78	81	71	69	70
2	---	---	---	89	78	83	89	79	85	72	70	71
3	---	---	---	90	84	87	92	81	87	77	71	73
4	108	103	105	93	87	90	90	80	85	77	63	67
5	107	101	105	105	92	97	89	78	85	63	61	62
6	103	89	96	102	96	98	83	66	72	63	60	62
7	90	87	89	109	99	104	79	68	74	60	55	58
8	90	86	88	101	95	99	81	75	78	60	55	58
9	88	86	87	102	94	98	80	70	74	60	56	57
10	95	87	92	96	91	93	72	68	70	63	60	61
11	100	94	97	95	92	92	75	70	72	76	62	67
12	101	95	98	94	82	90	76	71	73	78	73	76
13	94	84	89	83	81	82	77	72	74	74	71	73
14	87	83	85	83	61	70	78	71	74	74	70	72
15	90	84	87	67	61	64	74	70	72	71	69	70
16	90	87	88	72	67	69	79	73	76	77	70	72
17	95	90	92	74	69	73	78	68	71	77	71	74
18	95	90	93	78	74	76	73	68	70	78	74	76
19	95	91	93	81	76	79	78	71	74	78	75	76
20	96	94	95	83	79	81	78	72	74	84	71	78
21	97	94	96	84	69	78	77	71	74	81	77	79
22	101	95	99	71	66	69	81	74	78	78	73	74
23	100	94	97	73	68	70	80	75	77	81	75	78
24	106	97	101	76	68	72	90	78	85	78	69	75
25	110	103	106	75	69	72	80	78	79	71	54	59
26	110	96	103	74	70	73	78	75	76	63	41	56
27	87	79	82	77	68	73	79	72	76	60	49	54
28	81	77	79	75	72	73	81	72	76	58	49	53
29	81	78	80	78	70	74	85	76	81	59	52	56
30	78	72	75	82	71	76	78	68	74	66	56	62
31	---	---	---	80	76	78	74	68	72	---	---	---
MONTH	110	72	92	109	61	81	92	66	76	84	41	67
YEAR	131	41	82									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	14.0	14.5	13.5	12.0	12.5	3.5	3.0	3.5	3.5	3.0	3.0
2	14.0	13.5	13.5	13.5	13.0	13.0	3.5	3.0	3.0	3.5	3.0	3.5
3	13.0	12.0	12.5	13.0	12.0	12.0	3.5	3.5	3.5	2.5	1.5	2.0
4	12.0	11.5	11.5	13.0	12.0	12.5	3.5	2.0	2.5	3.0	1.5	2.5
5	12.5	11.5	12.0	13.0	12.0	12.5	2.5	1.5	2.0	3.0	2.0	2.5
6	14.0	12.5	13.0	12.5	11.5	12.0	2.5	2.0	2.5	2.0	1.5	1.5
7	15.0	14.0	14.5	12.0	11.0	11.5	3.0	2.0	2.5	1.5	1.5	1.5
8	14.0	13.0	14.0	11.0	10.5	10.5	5.5	3.0	4.0	2.5	1.5	2.0
9	13.0	12.5	12.5	10.5	9.5	10.0	5.0	3.5	4.0	3.5	3.0	3.0
10	13.0	12.5	12.5	9.5	9.0	9.0	3.5	3.0	3.0	3.5	3.0	3.0
11	13.5	12.5	13.0	9.0	8.5	8.5	3.5	2.5	3.0	4.0	3.0	3.5
12	13.0	13.0	13.0	9.5	8.5	9.0	4.0	3.0	3.5	4.0	3.0	3.5
13	14.0	13.0	13.5	10.5	9.5	10.0	4.0	3.5	4.0	3.5	2.5	3.0
14	13.5	12.5	13.0	9.5	8.0	8.5	4.5	4.0	4.5	3.0	2.0	2.5
15	14.0	12.5	13.0	9.0	8.5	9.0	4.0	3.5	3.5	2.0	1.5	1.5
16	14.0	12.0	13.5	8.0	7.0	7.5	3.5	1.5	3.0	2.5	1.5	2.0
17	12.5	11.5	12.0	7.5	7.0	7.0	3.5	1.5	2.5	2.0	1.5	1.5
18	12.5	10.5	11.5	7.0	6.5	6.5	3.0	3.0	3.0	2.0	1.0	1.5
19	10.0	8.5	9.0	8.0	7.0	7.5	3.0	2.5	2.5	3.0	2.0	2.5
20	8.5	7.0	8.0	8.5	8.0	8.5	3.0	2.5	2.5	3.0	1.5	2.5
21	7.0	6.5	6.5	9.0	8.0	8.5	3.5	3.0	3.0	1.5	1.5	1.5
22	7.5	6.5	7.0	7.5	5.0	6.0	4.0	3.5	3.5	3.0	2.0	2.5
23	9.0	7.5	8.5	5.0	4.0	4.5	3.5	2.5	3.0	2.5	2.0	2.5
24	9.5	8.5	9.0	6.5	5.0	5.5	3.5	3.0	3.0	3.0	2.0	2.5
25	9.5	8.5	9.0	7.0	6.5	6.5	3.5	2.0	2.5	3.0	3.0	3.0
26	9.5	8.5	9.0	6.5	3.5	5.0	2.0	1.5	1.5	3.5	2.5	3.0
27	10.0	9.5	9.5	3.5	2.5	3.0	1.5	1.5	1.5	3.0	2.5	2.5
28	9.5	8.5	9.0	4.5	3.5	4.0	3.0	1.5	2.5	3.0	2.0	2.5
29	10.5	9.0	9.5	5.0	4.5	4.5	3.0	2.0	2.5	4.0	3.0	3.5
30	11.5	10.5	11.0	4.5	3.5	4.0	3.5	2.5	3.5	4.0	2.5	3.0
31	13.0	11.5	12.5	---	---	---	3.5	2.5	3.0	2.5	2.0	2.5
MONTH	15.5	6.5	11.5	13.5	2.5	8.5	5.5	1.5	3.0	4.0	1.0	2.5

01187980 FARMINGTON RIVER AT COLLINSVILLE, CONN.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	2.0	2.5	4.5	3.5	4.0	6.5	3.5	5.0	12.5	11.5	12.0
2	2.5	1.5	2.0	4.0	3.0	3.5	6.5	5.0	6.0	11.5	10.0	11.0
3	2.5	1.5	2.0	3.5	2.5	3.0	6.0	4.5	5.5	13.0	9.5	11.0
4	1.5	1.0	1.5	4.0	2.0	3.0	4.5	3.5	4.0	13.0	11.5	12.5
5	1.0	1.0	1.0	4.5	2.5	3.5	4.0	3.0	3.5	11.0	10.0	10.5
6	2.5	1.0	1.5	4.5	3.0	4.0	5.0	3.5	4.0	12.0	10.0	11.0
7	3.0	2.5	2.5	5.0	3.5	4.0	5.0	3.0	4.0	14.0	11.5	12.5
8	2.5	1.5	2.0	5.0	4.0	4.5	5.5	3.0	4.5	13.5	12.0	12.5
9	1.5	1.0	1.5	3.5	1.0	2.5	6.5	4.0	5.0	14.5	12.0	13.5
10	1.5	1.0	1.0	3.0	2.0	2.5	7.0	4.0	5.5	14.5	12.5	13.5
11	1.0	1.0	1.0	4.5	3.0	3.5	7.5	5.0	6.5	14.0	11.0	12.5
12	1.0	1.0	1.0	4.5	3.5	4.0	8.0	6.0	7.0	15.0	13.0	14.0
13	1.0	1.0	1.0	5.0	3.5	4.0	7.5	6.0	6.5	14.5	13.0	14.0
14	1.5	1.0	1.0	4.5	2.5	3.0	8.0	5.0	6.5	16.0	13.0	14.5
15	1.5	1.0	1.5	3.5	1.5	2.5	8.0	7.0	7.5	15.5	13.5	14.5
16	1.5	1.0	1.5	4.5	3.0	3.5	8.5	7.0	7.5	15.0	13.5	14.5
17	2.0	1.5	1.5	6.0	4.5	5.5	10.0	7.5	8.5	16.5	14.5	15.5
18	3.0	2.0	2.5	6.0	5.0	5.5	9.5	8.0	8.5	16.5	15.0	16.0
19	4.0	3.0	3.5	6.5	5.0	5.5	9.0	8.5	8.5	18.0	15.5	16.5
20	4.5	3.5	4.0	7.0	4.0	5.0	10.0	8.0	9.0	20.0	17.0	18.5
21	4.5	3.5	4.0	5.0	3.0	4.0	9.5	8.0	8.5	19.5	18.0	19.0
22	4.5	3.5	4.0	4.5	4.0	4.0	9.5	6.5	8.0	19.5	18.0	19.0
23	4.5	4.0	4.5	6.5	4.0	5.5	10.5	8.5	9.5	20.5	18.5	19.5
24	4.0	3.0	3.5	6.0	4.5	5.0	10.5	10.0	10.5	22.0	20.5	21.5
25	4.0	2.5	3.0	6.0	4.5	5.5	12.5	10.0	11.0	21.5	19.5	20.5
26	4.5	3.0	4.0	6.5	4.5	5.5	13.0	11.5	12.0	19.0	17.0	17.5
27	5.0	3.0	3.5	4.0	2.0	3.0	12.0	9.5	10.5	17.5	16.5	17.0
28	4.5	3.0	4.0	4.5	1.5	3.5	10.5	8.5	9.5	---	---	---
29	---	---	---	4.5	3.0	3.5	11.0	9.5	10.5	---	---	---
30	---	---	---	4.5	3.5	4.0	12.5	10.0	11.5	---	---	---
31	---	---	---	4.5	3.0	4.0	---	---	---	---	---	---
MONTH	5.0	1.0	2.5	7.0	1.0	4.0	13.0	3.0	7.5	22.0	9.5	15.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	21.0	19.5	20.0	23.0	21.0	22.0	17.5	16.5	17.0
2	---	---	---	20.0	19.5	19.5	25.0	22.5	24.0	18.0	17.0	17.5
3	---	---	---	20.5	20.0	20.5	27.0	24.5	25.5	18.5	17.0	17.5
4	20.0	19.0	19.5	21.0	20.5	21.0	26.5	24.5	25.0	17.0	16.0	17.0
5	19.0	17.0	18.0	21.0	21.0	21.0	24.0	21.5	23.0	18.5	17.0	17.5
6	16.5	15.0	15.5	22.0	21.0	21.5	21.5	17.5	19.5	18.5	18.0	18.5
7	16.0	14.5	15.0	21.5	21.0	21.5	17.5	17.0	17.5	19.5	18.0	18.5
8	16.0	15.0	15.5	21.5	21.0	21.5	17.0	16.5	16.5	19.5	19.0	19.5
9	15.5	14.5	15.0	22.5	21.5	22.5	19.0	16.0	17.0	20.0	19.0	19.5
10	16.5	14.5	15.5	24.0	23.0	23.5	19.5	18.5	19.0	19.0	17.5	18.0
11	18.5	16.5	17.5	23.5	23.0	23.5	20.0	19.5	19.5	18.0	17.0	17.5
12	18.0	16.5	17.5	23.5	22.0	23.0	20.5	19.5	20.0	18.0	17.0	17.5
13	17.0	15.5	16.0	23.5	22.0	22.5	21.0	20.0	20.5	17.5	16.5	17.0
14	17.5	16.0	17.0	22.0	20.5	21.0	20.5	20.0	20.5	16.5	15.0	16.0
15	17.0	15.5	16.0	21.5	20.0	20.5	20.5	19.5	20.0	15.5	14.5	15.0
16	16.0	14.5	15.0	22.5	20.5	21.5	19.5	18.0	19.0	15.0	14.5	15.0
17	16.0	14.5	15.0	22.0	19.5	20.0	18.0	16.5	17.0	16.5	15.0	15.5
18	19.0	16.5	17.5	22.5	20.5	21.5	17.5	16.0	16.5	17.0	16.5	16.5
19	20.5	18.5	19.5	24.0	22.0	23.0	19.0	17.0	18.0	16.5	16.5	16.5
20	22.0	20.5	21.0	23.5	21.0	23.0	18.5	17.0	18.0	17.5	16.5	17.0
21	21.0	20.0	20.5	22.5	20.0	21.0	18.5	17.0	17.5	18.5	17.5	18.0
22	21.5	19.5	20.5	22.5	21.5	22.0	19.5	17.5	18.5	18.0	17.5	17.5
23	22.0	20.5	21.0	21.5	20.0	20.5	20.5	19.0	19.5	17.5	16.5	17.0
24	23.0	21.5	22.5	20.5	19.5	20.0	20.0	17.5	19.0	16.5	14.5	16.0
25	24.5	23.0	23.5	20.0	17.5	19.0	17.5	17.0	17.0	14.5	13.0	13.5
26	23.0	22.0	22.5	19.5	17.5	18.5	18.5	17.0	18.0	14.5	13.0	13.5
27	21.5	20.0	21.0	20.0	18.5	19.0	19.5	17.5	18.5	16.0	14.5	14.5
28	20.0	19.5	20.0	19.5	19.0	19.0	20.5	19.0	19.5	15.5	15.0	15.0
29	20.0	19.0	19.5	20.5	19.0	19.5	20.0	19.0	19.5	15.5	14.0	14.5
30	20.5	19.0	20.0	20.5	19.0	20.0	19.5	17.5	19.0	16.0	14.5	15.0
31	---	---	---	21.0	19.5	20.0	17.5	16.5	17.0	---	---	---
MONTH	24.5	14.5	18.5	24.0	17.5	21.0	27.0	16.0	19.5	20.0	13.0	16.5
YEAR	27.0	1.0	10.5									

01188000 BURLINGTON BROOK NEAR BURLINGTON, CONN

LOCATION.--Lat 41°47'10", long 72°57'55", Hartford County, on left bank 1.2 mi (1.9 km) north of Burlington, 3 mi (5 km) upstream from mouth, and 3 mi (5 km) southwest of Collinsville.

DRAINAGE AREA.--4.13 mi^2 (10.70 km^2).

PERIOD OF RECORD.--Discharge: September 1931 to current year.
Chemical analyses: May 1956, June 1968 to current year.
Water temperatures: January 1971 to January 1972.

GAGE.--Water-stage recorder and compound sharp-crested weir. Datum of gage is 714.00 ft (217.627 m) above mean sea level.

AVERAGE DISCHARGE.--44 years, 8.13 ft^3/s (0.230 m^3/s), 26.73 in/yr (679 mm/yr).

EXTREMES.--Current year: Maximum discharge, 631 ft^3/s (17.9 m^3/s) Sept. 26, gage height, 7.72 ft (2.353 m); minimum, 0.47 ft^3/s (0.013 m^3/s) June 21, gage height, 1.39 ft (0.424 m).

Period of record: Maximum discharge, 1,690 ft^3/s (47.9 m^3/s) Aug. 19, 1955, gage height, 9.22 ft (2.810 m), from rating curve extended above 320 ft^3/s (9.06 m^3/s) on basis of computation of peak flow through orifice and over weir abutments at 676 ft^3/s (19.1 m^3/s) and 1,690 ft^3/s (47.9 m^3/s); minimum, 0.12 ft^3/s (0.003 m^3/s) June 22, 1965; minimum unregulated daily, 0.44 ft^3/s (0.012 m^3/s) Aug. 31, Sept. 10, 1965.
Water temperatures: Maximum, 23.5°C July 27, Aug. 9, 1971; minimum, freezing point on many days during winter periods.

PEAK DISCHARGE.--(BASE, 140 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
03-20	0230	5.62	211
04-03	1700	5.44	189
07-14	0830	6.32	314
09-26	1800	7.72	631

REMARKS.--Records excellent. Occasional regulation at low flow. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.4	4.3	6.0	9.2	12	11	6.4	4.4	2.2	2.4	3.2
2	6.6	6.4	35	6.0	8.2	11	9.7	7.4	3.9	2.0	2.0	2.7
3	5.0	4.3	23	5.2	7.6	9.4	63	7.3	3.5	2.0	2.0	2.4
4	4.4	6.3	11	5.3	5.3	8.5	34	16	3.6	1.9	2.1	2.4
5	4.1	8.5	8.0	5.0	7.1	7.9	17	23	4.2	1.9	2.4	2.0
6	3.8	10	6.8	4.8	7.6	8.0	14	11	22	2.2	2.6	1.9
7	3.5	6.7	6.6	5.2	7.4	9.2	12	24	8.2	2.7	17	1.9
8	3.3	5.5	37	5.3	6.0	12	11	12	5.4	2.2	24	1.8
9	3.2	5.0	32	24	6.8	8.0	10	9.2	4.6	2.6	9.5	2.8
10	3.0	4.7	13	18	5.8	7.6	9.5	9.0	4.0	2.8	5.4	2.0
11	3.0	4.5	10	45	6.4	7.6	9.2	8.2	3.8	2.6	3.6	1.8
12	3.4	5.6	9.0	46	6.8	9.4	8.7	7.9	13	3.6	3.2	2.4
13	3.2	21	8.4	36	6.6	14	8.2	22	29	6.4	3.2	2.6
14	3.0	9.2	8.4	21	5.8	11	7.9	15	18	107	2.6	2.0
15	3.0	7.3	7.6	14	5.9	8.8	7.9	9.9	8.4	22	2.5	1.8
16	21	6.1	9.7	12	6.0	9.4	7.7	12	6.8	9.4	2.6	1.6
17	18	5.5	23	9.9	6.3	11	7.4	9.0	6.6	5.2	2.7	1.7
18	10	5.2	13	17	6.6	11	7.1	7.6	5.4	4.2	3.0	1.9
19	6.6	4.9	9.4	28	9.9	33	7.7	7.1	5.0	3.6	1.9	2.8
20	5.0	7.0	8.0	17	9.7	108	7.3	6.4	4.5	6.5	1.9	2.7
21	4.6	21	7.4	12	8.2	27	6.6	5.9	2.3	18	1.9	2.4
22	4.4	9.7	7.4	11	9.4	18	6.1	5.5	3.0	6.1	2.7	2.0
23	4.2	6.8	6.8	9.4	17	16	6.1	5.3	3.0	4.0	2.3	7.4
24	4.0	6.4	7.1	8.8	58	17	14	5.6	2.7	3.2	2.3	35
25	4.2	6.1	7.9	18	52	19	13	4.8	3.0	12	2.4	62
26	4.7	5.6	6.7	27	23	13	12	4.4	2.6	6.0	2.8	171
27	4.2	4.9	6.1	14	16	11	8.7	4.3	2.4	4.0	2.4	108
28	3.9	4.8	6.0	10	13	9.9	7.6	3.8	2.4	3.3	1.9	24
29	3.8	4.8	5.6	16	---	9.9	7.0	3.5	2.6	3.0	1.8	16
30	3.8	4.5	5.9	19	---	18	6.6	3.5	2.6	2.5	12	12
31	18	---	6.0	11	---	14	---	4.8	---	2.5	4.4	---
TOTAL	183.9	217.7	356.1	486.9	337.6	489.6	358.0	281.8	190.9	257.6	133.5	484.2
MEAN	5.93	7.26	11.5	15.7	12.1	15.8	11.9	9.09	6.36	8.31	4.31	16.1
MAX	21	21	37	46	58	108	63	24	29	107	24	171
MIN	3.0	4.3	4.3	4.8	5.3	7.6	6.1	3.5	2.3	1.9	1.8	1.6
CFSM	1.44	1.76	2.78	3.80	2.93	3.83	2.88	2.20	1.54	2.01	1.04	3.90
IN.	1.66	1.96	3.21	4.39	3.04	4.41	3.22	2.54	1.72	2.32	1.20	4.36

CAL YR 1974 TOTAL 3185.28 MEAN 8.73 MAX 92 MIN .88 CFSM 2.11 IN 28.69
WTR YR 1975 TOTAL 3777.80 MEAN 10.4 MAX 171 MIN 1.6 CFSM 2.52 IN 34.03

01188000 BURLINGTON BROOK NEAR BURLINGTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
01...	1410	11	6.8	13.5	12.0	10.8	100	7.9	0	120	40	50
NOV.												
05...	1140	6.2	6.5	9.5	11.0	11.0	99	9.0	0	200	50	20
DEC.												
16...	1100	7.0	6.7	-1.5	1.5	14.0	100	8.5	0	130	60	20
JAN.												
14...	1335	19	6.6	-2.0	1.0	14.6	103	6.7	0	140	60	10
FEB.												
11...	1245	6.0	6.7	-7.0	.5	14.2	99	9.1	0	150	80	10
MAR.												
18...	1150	9.6	6.7	6.0	2.5	13.8	101	7.3	0	100	50	10
APR.												
09...	1120	9.8	6.7	3.5	3.5	13.1	98	7.4	0	90	50	10
MAY												
12...	1150	7.3	7.0	23.0	12.5	10.2	95	6.4	0	140	40	20
JUNE												
16...	1250	6.4	6.7	17.5	15.0	10.0	98	8.9	0	330	50	0
JULY												
21...	1300	26	6.5	26.5	22.0	8.5	96	8.0	0	490	60	10
AUG.												
04...	1235	1.9	6.8	23.5	20.5	8.9	98	10	0	490	20	0
SEP.												
16...	1245	1.6	7.0	17.0	12.0	10.5	97	11	0	280	10	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
01...	4.7	1.7	8	0	7	7.0	6.2	.00	.11	.21	.27	.26
NOV.												
05...	4.0	1.7	11	0	9	7.4	7.6	.01	.11	.17	.22	.28
DEC.												
16...	3.2	1.6	6	0	5	7.4	7.2	.01	.22	.04	.05	.17
JAN.												
14...	3.2	1.6	9	0	7	7.9	5.4	.00	.16	.05	.06	.17
FEB.												
11...	3.0	1.6	8	0	7	7.1	9.7	.01	.29	.02	.03	.05
MAR.												
18...	3.5	1.4	8	0	7	7.2	8.6	.01	.19	.04	.05	.16
APR.												
09...	3.7	1.4	5	0	4	5.7	7.8	.01	.20	.03	.04	.06
MAY												
12...	5.1	1.3	8	0	7	7.2	8.4	.01	.09	.00	.00	.15
JUNE												
16...	4.0	1.6	12	0	10	7.1	10	.01	.19	.04	.05	.26
JULY												
21...	3.5	1.1	93	0	76	5.7	6.8	.00	.08	.00	.00	.44
AUG.												
04...	6.4	2.0	16	0	13	5.6	11	.01	.19	.01	.01	.27
SEP.												
16...	6.0	1.0	13	0	11	6.1	10	.02	.21	.00	.00	.21

01188000 BURLINGTON BROOK NEAR BURLINGTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
01...	.05	.37	1.6	.02	49	51	1.51	.07	19	12	60	20
NOV.												
05...	.11	.39	1.7	.02	57	53	.89	.07	17	8	67	30
DEC.												
16...	.13	.39	1.7	.01	44	52	.98	.07	15	10	61	8
JAN.												
14...	.12	.33	1.5	.01	48	56	2.93	.08	15	7	55	10
FEB.												
11...	.03	.34	1.5	.01	48	52	.84	.07	14	8	69	10
MAR.												
18...	.12	.35	1.6	.01	52	51	1.32	.07	15	8	59	8
APR.												
09...	.03	.26	1.2	.01	51	51	1.35	.07	15	11	50	4
MAY												
12...	.15	.24	1.1	.01	58	41	.81	.06	18	12	65	7
JUNE												
16...	.22	.45	2.0	.02	56	48	.83	.07	17	7	66	34
JULY												
21...	.44	.52	2.3	.05	57	43	3.02	.06	13	0	58	65
AUG.												
04...	.26	.46	2.0	.03	57	51	.26	.07	24	11	79	27
SEP.												
16...	.21	.42	1.9	.01	77	45	.19	.06	19	8	89	3

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
01...	2	2.0	1300	190	35	6.0	1	.0	.0	.0	--
NOV.											
05...	1	5.6	240	B10	7	6.0	0	.0	.0	.0	1
DEC.											
16...	2	1.9	130	1	5	3.2	0	.0	.0	.0	--
JAN.											
14...	1	3.6	270	8	32	3.8	0	.0	1.7	.3	--
FEB.											
11...	1	2.6	53	<1	3	4.3	0	.0	.0	.0	--
MAR.											
18...	1	2.6	2	1	2	1.8	1	.0	.0	.0	--
APR.											
09...	1	1.6	8	6	1	4.4	0	.0	.0	.0	--
MAY											
12...	1	1.3	120	21	4	4.9	0	.0	.0	.0	--
JUNE											
16...	2	3.8	620	560	140	7.5	0	.0	.0	.0	--
JULY											
21...	3	47	6500	960	1800	7.4	0	.0	.0	.0	--
AUG.											
04...	2	4.1	320	36	84	6.0	0	.0	.0	.0	--
SEP.											
16...	2	2.1	44	2	75	3.2	0	.0	.0	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01188000 BURLINGTON BROOK NEAR BURLINGTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (1G/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)
OCT. 01...	.0	0	.0	.0	.0	.0	.0	.0	.0	.0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)
OCT. 01...	0	0	0	0	0	6	9	100	7.0	1900

DATE	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 01...	1	0	9	6	16000	1	1000	1.2	18

01188085 FARMINGTON RIVER AT UNIONVILLE, CONN.

LOCATION.--Lat 41°45'52", long 72°53'47", Hartford County, at bridge on State Highway 4, at Unionville.

DRAINAGE AREA.--377 mi^2 (976 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
07...	0855	384	7.4	15.5	12.5	10.8	101	4.0	0	150	20	10
NOV.												
13...	1315	961	7.4	10.0	9.0	12.0	103	4.7	10	120	20	10
DEC.												
16...	1250	796	7.0	.5	2.0	13.7	99	5.4	0	100	40	10
JAN.												
14...	1500	1540	7.0	-3.0	1.5	14.2	101	5.2	0	130	40	0
FEB.												
11...	1415	630	6.8	-6.0	.5	14.5	100	5.6	0	100	40	10
MAR.												
18...	1315	598	7.0	9.0	5.0	13.0	101	5.6	0	80	30	0
APR.												
09...	1315	1450	7.1	8.5	4.0	--	--	5.4	0	70	30	10
MAY												
12...	1045	746	7.4	22.5	12.5	11.4	106	4.7	0	80	20	0
JUNE												
16...	1135	1160	7.0	19.0	14.0	10.8	104	4.9	10	100	20	10
JULY												
21...	1130	1890	6.9	27.0	20.5	8.9	98	5.3	0	210	30	0
AUG.												
04...	1110	273	6.8	24.0	24.0	8.8	103	4.1	0	110	10	0
SEP.												
16...	1100	430	7.3	19.5	16.0	10.8	109	4.3	0	120	0	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
07...	5.6	2.2	16	0	13	7.6	7.7	.01	.18	.23	.30	.19
NOV.												
13...	5.9	2.0	15	0	12	8.4	7.4	.01	.18	.12	.15	.44
DEC.												
16...	5.2	1.7	12	0	10	8.4	8.1	.01	.22	.08	.10	.20
JAN.												
14...	4.0	1.4	7	0	6	7.6	9.1	.00	.12	.07	.09	.22
FEB.												
11...	5.0	1.8	12	0	10	8.5	12	.01	.21	.06	.08	.16
MAR.												
18...	5.8	1.6	12	0	10	13	12	.01	.18	.05	.06	.20
APR.												
09...	8.5	1.4	7	0	6	7.8	8.7	.01	.14	.04	.05	.15
MAY												
12...	5.4	1.4	11	0	9	9.1	7.6	.00	.11	.01	.01	.16
JUNE												
16...	6.7	1.5	11	0	9	9.1	8.7	.01	.13	.06	.08	.24
JULY												
21...	5.1	1.2	12	0	10	6.8	8.2	.01	.20	.03	.04	.41
AUG.												
04...	6.5	1.6	16	0	13	6.8	7.9	.02	.15	.00	.00	.23
SEP.												
16...	7.0	.9	13	0	11	7.3	6.0	.01	.17	.00	.00	.23

01188085 FARMINGTON RIVER AT UNIONVILLE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
07...	.00	.37	1.6	.04	66	68	70.5	.09	23	10	77	7
NOV.												
13...	.32	.62	2.7	.05	61	62	161	.08	23	11	77	20
DEC.												
16...	.12	.42	1.9	.02	45	52	112	.07	20	10	70	10
JAN.												
14...	.15	.34	1.5	.02	59	59	245	.08	16	10	83	5
FEB.												
11...	.10	.37	1.6	.03	52	56	95.3	.08	20	10	88	10
MAR.												
18...	.15	.38	1.7	.03	63	54	87.2	.07	21	11	81	10
APR.												
09...	.11	.29	1.3	.02	45	51	200	.07	27	21	59	7
MAY												
12...	.15	.27	1.2	.02	60	47	94.7	.06	19	10	65	4
JUNE												
16...	.18	.37	1.6	.03	59	45	141	.06	23	14	63	18
JULY												
21...	.38	.61	2.7	.08	75	51	260	.07	18	8	70	18
AUG.												
04...	.23	.38	1.7	.04	55	40	29.5	.05	23	10	78	7
SEP.												
16...	.23	.40	1.8	.04	45	38	44.1	.05	21	11	75	4

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
07...	1	1.0	180	44	110	5.0	0	.0	5.3	5.0	--
NOV.											
13...	3	1.0	2500	170	220	6.0	0	.0	4.0	.0	0
DEC.											
16...	1	1.9	260	25	19	4.6	2	.0	.0	.0	--
JAN.											
14...	1	1.1	100	43	11	4.2	0	.0	--	--	--
FEB.											
11...	1	3.0	150	25	2	4.0	1	.0	.0	.0	--
MAR.											
18...	1	1.9	32	5	1	5.0	0	.0	.0	.0	--
APR.											
09...	1	.9	20	3	1	4.0	0	.0	.0	.0	--
MAY											
12...	1	.7	1300	21	3	3.9	0	.0	.0	.0	--
JUNE											
16...	1	1.8	660	88	75	3.9	0	.0	.0	.0	--
JULY											
21...	3	2.4	5200	1100	1600	4.4	0	.0	.0	.0	--
AUG.											
04...	1	4.1	340	76	620	8.7	0	.0	.0	.0	--
SEP.											
16...	1	1.0	84	10	130	5.0	0	.0	.0	.0	--

01188085 FARMINGTON RIVER AT UNIONVILLE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 07...	.0	0	.0	.0	1.6	.0	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 07...	0	0	.0	.0	.0	.0	.0	.0	.0	0	0	1

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 07...	100	2.6	27800	1	0	4	5	150000	24	6000	.0	19

01189000 PEQUABUCK RIVER AT FORESTVILLE, CONN.

LOCATION.--Lat 41°40'23", long 72°54'04", Hartford County, on left bank 500 ft (152 m) upstream from bridge on Central Street, 0.2 mi (0.3 km) downstream from Copper Mine Brook, and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--45.4 mi^2 (117.6 km^2).

PERIOD OF RECORD.--Discharge: July 1941 to current year.
Chemical analyses: May 1956, April, May, 1960, October 1970, January 1971 to January 1972.
Water temperatures: January 1971 to January 1972.

GAGE.--Water-stage recorder. Datum of gage is 197.72 ft (60.265 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage and diversion).--34 years, 85.4 ft^3/s (2.419 m^3/s), 25.54 in/yr (649 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,900 ft^3/s (110 m^3/s) Sept. 26, gage height, 8.5 ft (2.59 m); minimum, 21 ft^3/s (0.59 m^3/s) Sept. 8; minimum gage height, 1.01 ft (0.308 m) July 6, Sept. 8.

Period of record: Maximum discharge, 11,700 ft^3/s (331 m^3/s) Aug. 19, 1955, gage height, 13.22 ft (4.029 m), from high-water mark in gage house, from rating curve extended above 2,100 ft^3/s (59.5 m^3/s) on basis of slope-area measurement at gage heights 7.3 and 13.22 ft (2.22 and 4.029 m); minimum, 6.5 ft^3/s (0.18 m^3/s) Sept. 21, 22, 1941, gage height, 0.64 ft (0.195 m).
Specific conductance: Maximum recorded, 1,800 micromhos Feb. 6, 1971; minimum recorded, 60 micromhos Nov. 3, 1971.
Water temperatures: Maximum, 29.0°C June 30, July 1, 1971; minimum, freezing point on many days during January and February 1971.

Flood of September 1938 reached a stage of about 7.3 ft (2.22 m), from floodmarks, discharge 3,800 ft^3/s (108 m^3/s) on basis of slope-area measurement of peak flow and computation of peak flow over dam.

PEAK DISCHARGE.--(BASE, 800 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-02	1300	3.05	855
03-20	1100	2.95	802
04-03	1500	3.52	1,190
07-14	1000	3.97	1,510
09-26	2200	8.5	3,900

REMARKS.--Records good. Flow regulated by Whigville Reservoir (see p.211) and mills upstream. Diversion for municipal supply of city of New Britain from Whigville Reservoir. See REVISIONS summary paragraph in WSP 1901.

01189000 PEQUABUCK RIVER AT FORESTVILLE, CONN.--continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	50	35	67	97	124	82	52	41	28	30	30
2	36	37	383	70	86	109	71	73	38	30	27	30
3	32	32	196	65	80	99	586	59	36	27	25	28
4	29	34	108	62	72	89	366	109	41	26	25	24
5	27	52	83	59	72	83	170	148	48	25	27	31
6	27	50	74	55	77	79	126	84	142	61	31	25
7	26	39	65	57	79	75	104	211	60	47	82	23
8	26	35	148	63	73	79	88	99	46	33	66	27
9	25	31	325	189	69	69	82	74	43	37	63	60
10	24	30	152	223	63	63	74	76	40	90	43	25
11	25	30	112	170	65	65	69	68	38	46	38	24
12	24	41	96	332	62	70	68	117	112	66	33	35
13	23	137	88	305	63	87	65	243	166	166	30	43
14	25	62	81	302	64	81	61	174	78	670	30	24
15	34	49	77	182	62	79	60	99	60	356	29	24
16	152	43	74	137	62	80	59	117	55	132	32	23
17	74	39	244	118	63	80	57	82	52	93	29	23
18	47	39	167	106	67	78	56	68	48	57	30	23
19	37	38	115	230	77	163	53	63	45	47	26	34
20	34	45	96	210	84	738	53	57	41	57	28	31
21	34	101	86	156	81	499	51	53	38	115	25	27
22	31	71	82	127	78	262	49	51	34	63	33	27
23	29	55	79	113	96	160	47	48	34	45	28	95
24	29	48	76	102	343	130	120	65	33	40	39	233
25	32	46	80	110	475	129	104	49	33	132	33	437
26	32	46	86	190	241	102	97	42	32	61	30	1250
27	28	41	76	140	164	82	69	41	32	43	29	1580
28	27	39	71	111	134	76	60	39	31	39	25	405
29	27	38	68	132	---	73	56	37	30	36	25	216
30	27	36	67	153	---	138	55	38	30	32	90	152
31	82	---	67	116	---	99	---	41	---	30	35	---
TOTAL	1150	1434	3557	4452	3049	4140	3058	2577	1557	2730	1116	5009
MEAN	37.1	47.8	115	144	109	134	102	83.1	51.9	88.1	36.0	167
MAX	152	137	383	332	475	738	586	243	166	670	90	1580
MIN	23	30	35	55	62	63	47	37	30	25	25	23
(†)	+4.6	+6.7	+10.2	+9.1	+10.4	+9.2	+9.6	+8.8	+6.1	+6.1	+3.6	+5.0
MEAN‡	41.7	54.5	125	153	119	143	112	91.9	58.0	94.2	39.6	172
CFSM‡	0.92	1.20	2.75	3.37	2.62	3.15	2.47	2.02	1.28	2.07	0.87	3.79
IN‡	1.06	1.34	3.17	3.88	2.73	3.63	2.76	2.33	1.43	2.39	1.00	4.23

CAL YR 1974	TOTAL 26233	MEAN 71.9	MAX 431	MIN 17	MEAN‡ 78.6	CFSM‡ 1.73	IN‡ 23.55
WTR YR 1975	TOTAL 33829	MEAN 92.7	MAX 1580	MIN 23	MEAN‡ 100	CFSM‡ 2.20	IN‡ 29.95

†Change in contents in Whigville Reservoir, diversion for municipal supply of city of New Britain from Whigville Reservoir and at Whites Bridge pumping plant, equivalent in cubic feet per second; records furnished by city of New Britain.

‡Adjusted for diversion and change in contents.

01189030 PEQUABUCK RIVER AT FARMINGTON, CONN.

LOCATION.--41°43'00", long 72°50'25", Hartford County, at bridge on Meadow Road, at Farmington.

DRAINAGE AREA.--57.2 mi^2 (148.1 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1971, July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
02...	1500	72	7.0	13.0	13.5	6.2	59	10	10	210	190	70
NOV.												
05...	1425	56	7.0	10.5	13.0	3.3	31	12	10	200	210	60
DEC.												
17...	0900	391	6.8	4.5	1.0	11.9	84	5.7	10	200	90	70
JAN.												
21...	1325	176	6.7	-4.5	1.0	12.1	86	9.0	10	160	110	60
FEB.												
11...	1530	81	6.9	-5.5	1.0	10.9	77	11	0	230	180	40
MAR.												
18...	1425	94	7.0	10.5	7.0	10.2	83	8.8	10	180	120	40
APR.												
09...	1425	132	6.7	7.5	8.5	--	--	8.7	10	170	100	40
MAY												
12...	0900	101	6.7	19.0	15.0	5.8	57	8.0	10	310	150	40
JUNE												
16...	0950	57	6.7	18.5	17.5	3.6	38	11	20	380	160	30
JULY												
21...	0920	190	6.3	24.0	22.5	3.6	41	7.2	10	330	120	30
AUG.												
04...	0915	38	6.7	23.5	24.0	1.1	13	11	10	80	130	20
SEP.												
16...	0915	37	6.9	14.0	14.5	3.2	31	12	20	180	130	50

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
02...	14	3.0	50	0	41	20	23	.02	.86	2.4	3.1	2.3
NOV.												
05...	17	3.5	74	0	61	28	27	.02	.92	5.1	6.6	4.5
DEC.												
17...	8.5	2.0	19	0	16	11	30	.02	.58	.74	.95	1.2
JAN.												
21...	11	2.5	29	0	24	18	23	.00	.80	.05	.06	.28
FEB.												
11...	14	3.8	49	0	40	22	38	.02	1.1	2.7	3.5	2.9
MAR.												
18...	13	2.8	44	0	36	20	23	.03	.77	1.7	2.2	1.8
APR.												
09...	13	2.6	34	0	28	17	20	.01	.86	.90	1.2	1.4
MAY												
12...	15	2.5	42	0	34	17	22	.01	.66	1.4	1.8	2.3
JUNE												
16...	9.2	3.1	48	0	39	18	25	.01	.94	2.1	2.7	2.2
JULY												
21...	10	1.7	30	0	25	9.9	14	.00	.79	.67	.86	1.3
AUG.												
04...	22	4.0	66	0	54	20	30	.02	.92	2.9	3.7	3.6
SEP.												
16...	22	3.1	83	0	68	30	31	.07	.87	5.1	6.6	5.4

01189030 PEQUABUCK RIVER AT FARMINGTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
02...	.00	3.2	14	.82	167	133	25.9	.18	47	6	216	20
NOV.												
05...	.00	5.4	24	1.6	182	160	24.2	.22	57	0	275	20
DEC.												
17...	.46	1.8	7.9	.37	131	112	118	.15	29	14	183	20
JAN.												
21...	.23	1.1	4.8	.32	120	103	48.9	.14	38	14	173	10
FEB.												
11...	.20	4.0	18	1.0	195	151	33.0	.21	51	10	261	20
MAR.												
18...	.10	2.6	11	.62	129	121	30.7	.16	44	8	190	9
APR.												
09...	.50	2.3	10	.43	120	116	41.3	.16	43	15	175	9
MAY												
12...	.90	3.0	13	.67	131	100	27.3	.14	48	13	175	8
JUNE												
16...	.10	3.1	14	.76	159	122	18.8	.17	36	0	170	28
JULY												
21...	.63	2.1	9.3	.49	124	82	42.1	.11	32	7	130	17
AUG.												
04...	.70	4.5	20	1.1	171	140	14.4	.19	71	17	260	9
SEP.												
16...	.30	6.3	28	1.7	211	182	18.2	.25	68	0	350	2

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
02...	10	8.0	130000	5100	66	12	1	.3	1.0	.0	--
NOV.											
05...	7	12	190000	B27000	B2100	12	1	.6	.0	.0	0
DEC.											
17...	7	4.8	92000	6200	4500	9.4	1	.1	--	--	--
JAN.											
21...	8	9.3	80000	11000	5600	13	0	.1	--	--	--
FEB.											
11...	10	9.9	70000	25000	12000	7.8	1	.3	.0	.0	--
MAR.											
18...	8	7.0	28000	4900	B100	5.4	1	.3	--	--	--
APR.											
09...	6	11	B1300	B330	<100	6.2	1	.2	.0	.0	--
MAY											
12...	3	13	1000	<10	B15	8.1	0	.2	.0	.0	--
JUNE											
16...	4	15	46000	3400	160	7.3	1	.2	.0	.0	--
JULY											
21...	6	24	58000	17000	5000	8.4	1	.1	.0	.0	--
AUG.											
04...	3	21	1600	150	200	13	0	.4	.0	.0	--
SEP.											
16...	5	17	820	60	41	9.3	1	.5	.0	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01189030 PEQUABUCK RIVER AT FARMINGTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (1G/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)
OCT. 02...	.0	1	.2	.0	.0	.2	.0	.0	.0	.0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)
OCT. 02...	0	0	0	0	0	9	36	100	9.3	200

DATE	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 02...	220	0	3100	5400	150000	4500	3900	.0	12500

01189120 FARMINGTON RIVER AT AVON, CONN.

LOCATION.--Lat 41°48'24", long 72°49'23", Hartford County, at bridge on U.S. Highway 44, at Avon.

DRAINAGE AREA.--465 mi^2 (1,204 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1971, July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
16...	1450	638	7.0	9.5	12.0	9.3	86	5.0	10	150	50	30
NOV.												
25...	0925	810	6.9	10.5	4.5	12.6	97	5.6	0	130	30	20
DEC.												
18...	0925	1700	6.9	3.0	1.5	13.4	96	6.1	10	120	50	30
JAN.												
21...	1055	1630	7.1	-7.0	.0	14.3	98	6.3	20	150	50	40
FEB.												
19...	0935	757	6.9	6.0	2.0	13.1	94	6.4	0	140	70	20
MAR.												
11...	1120	1120	6.9	2.5	2.0	13.8	100	5.8	0	100	50	10
APR.												
08...	1040	3310	6.8	3.0	3.0	13.0	97	5.5	0	90	30	10
MAY												
05...	1115	1200	6.8	12.0	11.0	10.0	91	5.2	10	160	60	10
JUNE												
10...	1110	806	7.0	21.5	14.5	9.6	93	6.2	0	160	60	10
JULY												
23...	1030	1660	6.8	28.0	22.0	7.8	89	5.4	10	200	50	0
AUG.												
05...	1050	450	6.7	31.0	25.0	8.0	95	5.4	0	90	30	10
SEP.												
15...	1130	502	6.9	16.0	16.5	9.4	96	5.1	0	120	30	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
16...	7.8	1.7	28	0	23	12	13	.00	.50	.80	1.0	.82
NOV.												
25...	7.0	2.0	19	0	16	11	10	.01	.30	.31	.40	.86
DEC.												
18...	6.0	1.8	15	0	12	9.2	11	.01	.37	.29	.37	.51
JAN.												
21...	7.9	1.7	15	0	12	11	14	.01	.32	.25	.32	.39
FEB.												
19...	8.5	2.1	23	0	19	11	30	.01	.48	.63	.81	.63
MAR.												
11...	5.8	1.5	15	0	12	12	12	.01	.33	.37	.48	.59
APR.												
08...	5.6	1.5	10	0	8	7.6	9.3	.01	.20	.12	.15	.29
MAY												
05...	7.0	1.4	18	0	15	9.9	11	.00	.26	.17	.22	.56
JUNE												
10...	7.0	1.4	20	0	16	9.6	9.4	.01	.35	.34	.44	.55
JULY												
23...	6.6	1.3	16	0	13	8.0	8.2	.00	.21	.15	.19	.48
AUG.												
05...	10	2.2	24	0	20	8.9	11	.01	.50	.19	.24	.60
SEP.												
15...	12	1.0	21	0	17	9.1	9.0	.01	.43	.17	.22	1.9

01189120 FARMINGTON RIVER AT AVON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
16...	.02	1.3	5.8	.41	93	81	140	.11	26	4	121	20
NOV.												
25...	.55	1.2	5.1	.13	70	62	136	.08	26	10	93	20
DEC.												
18...	.22	.88	3.9	.10	64	74	340	.10	22	10	109	20
JAN.												
21...	.14	.71	3.1	.11	79	62	273	.08	27	14	112	10
FEB.												
19...	.00	1.1	4.9	.26	100	103	211	.14	30	11	173	20
MAR.												
11...	.22	.92	4.1	.15	74	62	187	.08	21	8	91	9
APR.												
08...	.17	.49	2.2	.08	60	63	563	.09	20	12	78	9
MAY												
05...	.39	.82	3.6	.13	74	63	204	.09	23	8	93	13
JUNE												
10...	.21	.90	4.0	.27	76	61	133	.08	23	7	100	19
JULY												
23...	.33	.69	3.1	.11	70	53	238	.07	22	9	100	23
AUG.												
05...	.41	1.1	4.9	.18	83	67	81.4	.09	34	14	185	11
SEP.												
15...	1.7	2.3	10	.13	67	58	78.6	.08	34	17	110	2

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
16...	4	4.5	14000	1000	180	6.8	2	.1	7.0	1.5	--
NOV.											
25...	3	3.8	13000	1500	130	4.8	0	.1	1.0	.0	1
DEC.											
18...	3	3.0	34000	3000	1200	5.3	0	.1	--	--	--
JAN.											
21...	5	1.9	22000	6000	1800	7.3	0	.1	3.0	2.5	--
FEB.											
19...	3	4.6	62000	3100	1500	4.5	0	.1	.0	.0	--
MAR.											
11...	2	3.0	29000	3100	1200	4.5	0	.1	--	--	--
APR.											
08...	2	2.5	1700	780	240	5.0	1	.0	.0	.0	--
MAY											
05...	3	4.6	7400	1650	200	6.0	0	.0	.0	.0	--
JUNE											
10...	2	3.2	42000	2600	140	6.5	0	.0	.0	.0	--
JULY											
23...	3	4.1	1100	88	170	5.2	0	.0	.0	.0	--
AUG.											
05...	2	7.7	1300	150	130	5.9	0	.1	.0	.0	--
SEP.											
15...	1	4.2	1000	140	38	4.5	0	.1	.0	.0	--

01189120 FARMINGTON RIVER AT AVON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (1G/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)
OCT. 16...	.0	.0	.0	.0	9.7	.0	.0	.0	.0	0	0	0

DATE	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
OCT. 16...	0	.0	.0	.0	.0	.0	.0	.0	20	1	3	100

DATE	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 16...	8.1	35100	1	4	21	20	2900	35	87	.1	58

011893900 EAST BRANCH SALMON BROOK AT GRANBY, CONN.

LOCATION.--Lat 41°57'15", long 72°46'48", Hartford County, on right bank at downstream side of bridge on State Highway 20, 0.5 mi (0.8 km) east of Granby, 1.0 mi (1.6 km) upstream from West Branch Salmon Brook, and 1.8 mi (2.9 km) downstream from Manitook Lake.

DRAINAGE AREA.--33.3 mi^2 (86.2 km^2).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.74 ft (48.994 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 63.0 ft^3/s (1.784 m^3/s), 25.69 in/yr (653 mm/yr).

EXTREMES.--Current year: Maximum discharge 2,130 ft^3/s (60.3 m^3/s) Sept. 26, gage height, 9.84 ft (2.999 m); minimum, 16 ft^3/s (0.45 m^3/s) July 8, 9, gage height, 1.08 ft (0.329 m).

Period of record: Maximum discharge, 2,130 ft^3/s (60.3 m^3/s) Sept. 26, 1975, gage height, 9.84 ft (2.999 m); minimum, 4.0 ft^3/s (0.11 m^3/s) Sept. 4, 5, 1968; minimum gage height, 0.68 ft (0.207 m) July 16, 1965.

PEAK DISCHARGE.--(BASE 500 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
02-25	0100	4.34	526
03-20	0830	7.59	1,330
04-03	2100	7.45	1,300
09-26	2130	9.84	1,940

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	47	39	59	87	129	104	54	38	29	28	49
2	69	40	129	59	77	113	96	57	35	26	28	39
3	52	35	152	54	70	101	460	59	32	23	27	34
4	42	38	99	52	62	91	469	69	48	20	43	29
5	36	45	77	49	62	86	235	110	42	19	34	26
6	32	63	63	45	68	85	176	83	118	18	32	25
7	28	52	57	48	65	86	143	91	89	17	100	25
8	26	44	120	48	62	103	125	76	64	17	162	23
9	24	39	222	77	61	87	112	66	50	18	157	24
10	23	36	126	96	60	77	104	62	43	28	94	23
11	23	34	98	110	57	77	99	59	36	22	72	22
12	22	34	85	173	56	80	93	59	64	25	57	23
13	22	104	78	182	54	101	88	99	150	36	47	30
14	21	82	75	149	53	95	85	106	120	248	41	26
15	21	64	71	114	51	85	82	81	83	179	36	23
16	49	54	69	98	48	82	78	73	68	114	35	22
17	83	49	141	86	51	91	73	66	61	81	35	22
18	59	44	124	78	55	92	72	59	54	52	35	22
19	46	42	101	132	62	100	75	55	47	42	31	24
20	39	43	88	110	69	830	72	54	41	48	28	29
21	34	103	80	90	68	345	66	52	36	147	26	28
22	31	85	76	85	69	211	63	46	33	83	26	26
23	29	65	71	76	87	172	61	43	30	61	24	37
24	27	57	69	72	274	157	75	40	28	47	25	146
25	26	54	70	87	422	175	83	36	25	57	26	501
26	32	50	66	166	256	142	78	35	23	54	26	653
27	30	45	62	122	180	116	71	36	23	44	26	1110
28	28	43	61	98	146	105	68	43	23	41	23	464
29	26	42	58	99	---	103	62	34	26	36	22	272
30	26	40	57	129	---	126	57	33	35	33	82	189
31	46	---	58	100	---	122	---	40	---	30	65	---
TOTAL	1146	1573	2742	2943	2732	4365	3525	1876	1565	1695	1493	3966
MEAN	37.0	52.4	88.5	94.9	97.6	141	118	60.5	52.2	54.7	48.2	132
MAX	94	104	222	182	422	830	469	110	150	248	162	1110
MIN	21	34	39	45	48	77	57	33	23	17	22	22
CFSM	1.11	1.57	2.66	2.85	2.93	4.23	3.54	1.82	1.57	1.64	1.45	3.96
IN.	1.28	1.76	3.06	3.29	3.05	4.88	3.94	2.10	1.75	1.89	1.67	4.43

CAL YR 1974 TOTAL 23405.6 MEAN 64.1 MAX 324 MIN 8.3 CFSM 1.92 IN 26.15
WTR YR 1975 TOTAL 29621.0 MEAN 81.2 MAX 1110 MIN 17 CFSM 2.44 IN 33.09

01189995 FARMINGTON RIVER AT TARIFFVILLE, CONN.

LOCATION.--Lat 41°54'30", long 72°45'40", Hartford County, on right bank at Tariffville, behind house at 20 Tunxis Road, 0.3 mi (0.5 km) downstream from bridge on State Highway 189 and 5.5 mi (8.8 km) upstream from gage at Rainbow.

DRAINAGE AREA.--571 mi^2 (1,479 km^2).

PERIOD OF RECORD.--Discharge: January 1913 to August 1928 furnished by Farmington River Power Company. August 1928 to September 1939, October 1971 to current year.
Chemical analyses: September 1967, April 1968, January 1971 to current year.
Water temperatures: January 1971 to January 1972.

GAGE.--Water-stage recorder August 1928 to September 1939 and since October 1971. January 1913 to August 1928, staff gage on forebay of dam of Hartford Electric Light Co. Datum of gage is 130.21 ft (39.688 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 9,380 ft^3/s (266 m^3/s) Sept. 27, gage height, 8.19 ft (2.496 m); minimum, 297 ft^3/s (8.41 m^3/s) Aug. 23, 24, gage height, 1.14 ft (0.347 m).

Period of record: Maximum discharge, 29,900 ft^3/s (847 m^3/s) Sept. 22, 1938, gage height, 14.0 ft (4.27 m), from floodmarks, by computation of flow over dam 0.6 mi (1.0 km) downstream; minimum, probably less than 30 ft^3/s (0.85 m^3/s) Mar. 1, 1938, river level below intake; minimum daily discharge, about 175 ft^3/s (4.96 m^3/s) Sept. 22, 1930.
Specific conductance (1971-72): Maximum recorded, 285 micromhos Feb. 16, 1971; minimum recorded, 70 micromhos May 14, 15, 1971.
Water temperatures: Maximum, 26.5°C June 25, 27, 1971; minimum, freezing point on many days during winter months in 1971.

REMARKS.--Records good. Flow regulated by Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs (see p.211), and by diversion for municipal supply from Barkhamsted, Nepaug and Whigville Reservoirs, and Whites Bridge pumping station. See REVISIONS summary paragraph in WSP 1901, p. 793.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1570	1060	778	900	1600	2010	2000	967	706	537	653	812
2	946	882	1290	900	1400	1790	2000	929	542	474	568	705
3	718	757	2450	880	1270	1640	2500	980	602	426	511	685
4	614	711	1960	833	1110	1520	5500	967	665	384	480	750
5	562	798	1370	826	1010	1430	5300	1530	704	343	524	724
6	511	975	1070	778	1050	1410	4500	1620	1190	331	659	705
7	462	953	968	791	1090	1410	4000	1620	1720	480	1000	679
8	444	840	1160	854	1050	1500	3870	1850	1450	456	1410	672
9	438	764	3140	1070	996	1460	2910	1520	1110	378	1820	750
10	456	711	2780	1760	861	1330	2300	1360	959	426	1280	750
11	474	653	1890	1900	870	1340	2130	1510	757	486	939	640
12	462	653	1470	2810	870	1540	1800	1440	778	505	826	633
13	493	1100	1320	3170	880	1890	1560	1800	1860	627	764	737
14	384	1350	1230	3280	880	1940	1470	2960	2460	2570	731	666
15	420	1090	1170	2570	890	1530	1410	2890	2030	3680	718	601
16	633	996	1120	2070	875	1140	1330	2440	1680	2820	731	620
17	1210	903	1730	1850	868	1140	1280	1960	1540	2040	724	620
18	975	854	1950	1610	861	1170	1310	1550	1290	1440	724	640
19	698	840	1620	2170	917	1200	1290	1330	1030	1030	718	744
20	556	826	1350	2410	1050	4750	1300	1210	889	847	692	805
21	480	1220	1210	2000	996	5560	1230	1200	791	1640	659	785
22	468	1570	1120	1640	968	4240	1230	1080	672	2400	549	764
23	468	1240	1070	1420	1060	3310	1120	1020	666	1990	319	875
24	486	1030	1030	1450	2080	2860	1120	874	653	1600	450	1550
25	594	960	1050	1420	4370	2700	1420	808	633	1460	620	4200
26	633	946	1000	2160	4170	2400	1450	706	601	1540	614	4960
27	614	896	953	2270	3140	2400	1310	678	562	1250	607	9160
28	575	854	950	1870	2390	2300	1140	734	543	1030	633	8890
29	575	840	950	1710	---	2200	1070	688	530	910	568	6540
30	607	798	900	1940	---	2100	1020	609	556	833	882	4270
31	819	---	900	1850	---	2100	---	673	---	744	1080	---
TOTAL	19345	28070	42949	53162	39572	65310	61870	41503	30169	35677	23453	55932
MEAN	624	936	1385	1715	1413	2107	2062	1339	1006	1151	757	1864
MAX	1570	1570	3140	3280	4370	5560	5500	2960	2460	3680	1820	9160
MIN	384	653	778	778	861	1140	1020	609	530	331	319	601
(†)	+52.1	+141	+335	+183	+224	+391	+114	+124	+42.2	+123	-78.2	+299
MEAN‡	676	1077	1720	1898	1637	2498	2176	1463	1048	1274	679	2163
CFSM‡	1.18	1.89	3.01	3.32	2.87	4.37	3.81	2.56	1.84	2.23	1.19	3.79
IN‡	1.36	2.11	3.47	3.83	2.99	5.04	4.25	2.95	2.05	2.57	1.26	4.23

CAL YR 1974 TOTAL 440784 MEAN 1208 MAX 4130 MIN 215 MEAN‡ 1266 CFSM‡ 2.22 IN‡ 30.10
WTR YR 1975 TOTAL 497012 MEAN 1362 MAX 9160 MIN 319 MEAN‡ 1524 CFSM‡ 2.67 IN‡ 36.11

†Change in contents in Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs, and diversions from Barkhamsted, Nepaug, and Whigville Reservoirs and Whites Bridge pumping station, equivalent in cubic feet per second; furnished by the Metropolitan District Commission, Corps of Engineers, Union Pin Company, Massachusets Department of Natural Resources, Division of Forests and Parks, and the city of New Britain.

‡Adjusted for diversion and change in contents.

01189995 FARMINGTON RIVER AT TARIFFVILLE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
07...	1235	505	7.1	20.5	13.0	9.6	91	6.9	10	170	80	20
NOV.												
04...	0930	742	7.1	23.5	12.0	9.4	87	5.8	20	170	30	20
DEC.												
18...	1055	2100	6.9	3.0	1.5	13.7	97	6.3	0	120	40	20
JAN.												
14...	0940	3400	6.7	-2.0	1.5	13.2	94	6.2	0	150	50	10
FEB.												
06...	0950	1080	6.9	1.0	.0	14.2	97	7.4	0	290	60	20
MAR.												
11...	1320	1380	7.0	3.0	2.0	13.2	95	6.2	0	80	50	10
APR.												
08...	1225	4020	6.8	5.5	4.0	13.0	98	5.8	0	120	30	10
MAY												
05...	1340	1570	6.9	12.5	9.5	10.5	91	6.0	10	140	50	10
JUNE												
10...	1330	990	7.0	22.0	15.5	9.5	95	6.5	0	160	40	10
JULY												
23...	1255	2000	6.6	30.0	23.0	8.2	94	6.0	0	220	40	0
AUG.												
05...	1240	575	6.9	30.0	24.5	8.5	101	6.1	0	70	30	10
SEP.												
15...	1400	620	7.2	18.5	16.0	9.9	100	5.6	0	120	20	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
07...	11	2.9	27	0	22	13	12	.01	.70	.62	.80	.57
NOV.												
04...	9.5	2.1	25	0	21	12	11	.01	.51	.45	.58	.58
DEC.												
18...	6.5	1.8	15	0	12	9.7	12	.01	.40	.18	.23	.57
JAN.												
14...	5.5	1.6	12	0	10	9.9	8.1	.00	.27	.14	.18	.40
FEB.												
06...	9.5	2.1	21	0	17	13	12	.00	.57	.28	.36	.45
MAR.												
11...	6.9	1.6	18	0	15	11	11	.01	.46	.22	.28	.35
APR.												
08...	6.4	1.5	14	0	11	8.8	9.5	.01	.23	.09	.12	.36
MAY												
05...	8.6	1.6	20	0	16	11	12	.00	.38	.13	.17	.61
JUNE												
10...	7.5	1.4	19	0	16	7.7	9.2	.01	.47	.13	.17	.51
JULY												
23...	7.2	1.3	17	0	14	7.8	8.3	.00	--	--	--	--
AUG.												
05...	13	2.3	28	0	23	11	13	.01	.65	.06	.08	.45
SEP.												
15...	10	1.0	22	0	18	11	9.3	.02	.59	.12	.15	.36

01189995 FARMINGTON RIVER AT TARIFFVILLE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
07...	.00	1.3	5.6	.20	100	95	130	.13	39	17	129	10
NOV.												
04...	.13	1.1	4.8	.20	79	69	138	.09	32	12	113	20
DEC.												
18...	.39	.97	4.3	.08	66	72	408	.10	24	11	103	20
JAN.												
14...	.26	.67	3.0	.08	67	63	578	.09	20	10	79	20
FEB.												
06...	.17	1.0	4.5	.12	75	68	198	.09	32	15	113	20
MAR.												
11...	.13	.81	3.6	.10	73	66	246	.09	24	9	98	10
APR.												
08...	.27	.59	2.6	.08	62	66	716	.09	22	11	73	7
MAY												
05...	.48	.99	4.4	.13	77	69	293	.09	28	12	109	12
JUNE												
10...	.38	.98	4.3	.13	202	60	160	.08	25	9	99	20
JULY												
23...	--	--	--	.16	81	58	313	.08	23	9	90	27
AUG.												
05...	.39	1.1	4.9	.14	99	58	90.0	.08	42	19	145	3
SEP.												
15...	.24	.95	4.2	.16	64	59	98.8	.08	29	11	112	3

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
07...	2	3.4	14000	6800	320	5.9	1	.0	--	--	--
NOV.											
04...	1	3.2	66000	18000	480	5.2	0	.0	5.0	.0	0
DEC.											
18...	4	3.0	15000	2800	450	12	0	.0	.0	.0	--
JAN.											
14...	3	3.8	7100	970	260	3.6	0	.0	3.0	2.5	--
FEB.											
06...	8	4.2	14000	1200	680	3.3	0	.1	--	--	--
MAR.											
11...	2	2.9	900	62	46	4.4	0	.0	--	--	--
APR.											
08...	3	3.6	750	150	29	4.7	0	.0	--	--	--
MAY											
05...	2	4.0	390	160	85	5.3	0	.1	.0	.0	--
JUNE											
10...	2	3.0	270	65	42	7.2	0	.0	.0	.0	--
JULY											
23...	4	6.8	1200	120	120	6.1	1	.0	.0	.0	--
AUG.											
05...	1	5.6	2600	780	120	6.3	0	.1	.0	.0	--
SEP.											
15...	1	2.2	360	56	62	5.2	0	.0	.3	.0	--

01189995 FARMINGTON RIVER AT TARIFFVILLE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 07...	.0	0	.0	.0	.0	.1	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 07...	0	0	.0	.0	.0	.0	.0	.0	.0	41	0	1

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 07...	100	1.4	2200	1	1	3	3	25000	6	3400	.0	21

01190000 FARMINGTON RIVER AT RAINBOW, CONN.

LOCATION.--Lat 41°54'41", long 72°41'16", Hartford County, on left bank at Rainbow, 300 ft (91 m) from Stevens Paper Mill, 0.4 mi (0.6 km) downstream from Farmington River Power Co. dam, 1.3 mi (2.1 km) upstream from Poquonock, 6.4 mi (10.3 km) downstream from Salmon Brook, and at mile 8.2 (13.2 km).

DRAINAGE AREA.--583 mi^2 (1,510 km^2).

PERIOD OF RECORD.--Discharge: August 1928 to current year. Prior to 1940, published as "at Tariffville."
Chemical analyses: April 1953, October 1957 to September 1958, June 1968 to January 1971.
Water temperatures: October 1957 to September 1958.

GAGE.--Water-stage recorder. Datum of gage is 35.36 ft (10.778 m) above mean sea level. Prior to July 1, 1939, graphic water-stage recorder at site 5.5 mi (8.8 km) upstream at datum 94.85 ft (28.910 m) higher.

AVERAGE DISCHARGE (adjusted to present site; adjusted for storage and diversion).--47 years, 1,068 ft^3/s (30.25 m^3/s), 24.87 in/yr (632 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,500 ft^3/s (297 m^3/s) Sept. 27, gage height, 8.33 ft (2.539 m); minimum daily, 243 ft^3/s (6.88 m^3/s) Aug. 23.

Period of record: Maximum discharge, 69,200 ft^3/s (1,960 m^3/s) Aug. 19, 1955, gage height, 23.5 ft (7.16 m), from floodmarks, by computation of flow over dam 0.4 mi (0.6 km) upstream; minimum daily, 5.1 ft^3/s (0.14 m^3/s) Mar. 5, 1944, Oct. 28, Nov. 11, 1945; Feb. 22, 1947.
Specific conductance (1957-58): Maximum daily, 148 micromhos Oct. 30, 1957; minimum daily, 51 micromhos Apr. 21, 1958.
Water temperatures: Maximum, 28.0°C July 2, 1958; minimum, freezing point Feb. 17, 1958.

REMARKS.--Records excellent. Flow regulated by power plant, by Otis Reservoir, Colebrook River Lake, Mad River Detention Reservoir, Sucker Brook Detention Reservoir, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs (see p. 211), and by diversions for municipal supply from Barkhamsted, Nepaug and Whigville Reservoirs, and Whites Bridge pumping plant. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1930	1000	695	923	1470	1900	1840	657	665	612	742	796
2	951	800	1470	1040	1050	1600	1860	1020	543	511	425	565
3	624	750	2090	900	1190	1770	2520	912	450	455	440	594
4	505	690	1840	648	1000	1420	5180	802	807	319	669	659
5	777	786	955	633	1040	1500	4740	1360	682	363	519	748
6	219	929	938	865	879	1260	4080	1510	1460	312	568	643
7	491	917	992	887	1180	1410	3750	1490	1270	450	1190	735
8	498	909	1300	805	777	1190	3540	1560	1680	827	1520	686
9	342	748	2710	1170	948	1280	2710	1510	1090	631	1760	839
10	501	654	2040	1600	854	1240	1990	1350	648	573	1140	704
11	437	693	1650	1930	775	1370	1990	1080	649	623	983	720
12	814	598	1250	2150	642	1460	1680	1420	968	572	615	606
13	281	1060	1280	2740	800	1570	1380	1430	1740	622	769	659
14	454	1270	979	2910	800	1980	1610	2440	2150	2400	610	556
15	693	996	1280	2560	800	1460	1270	2480	2020	3360	781	610
16	1010	876	1260	2320	800	1140	1180	2280	1690	2670	680	646
17	975	920	1380	1490	800	1140	1210	1680	1460	1860	812	553
18	1110	759	1790	1210	800	984	1330	1520	1330	1390	773	683
19	706	871	1660	2200	900	1360	1060	1130	1080	949	533	762
20	373	768	1450	2160	1000	3670	1110	1180	784	776	685	826
21	490	1270	1140	1830	950	5050	1290	902	739	1420	1200	691
22	533	1440	979	1440	900	3790	1030	1240	557	2190	294	774
23	436	1180	1090	1310	1200	2950	1010	815	623	1960	243	1110
24	523	1030	879	1370	1600	2570	1250	792	626	990	312	1590
25	806	864	1130	1520	4000	2520	1140	779	676	1250	649	3340
26	1080	752	886	1640	3900	2180	1370	630	664	1370	725	4660
27	775	913	937	1980	3000	2200	1100	708	484	1030	477	9680
28	693	821	1010	1950	2300	2030	1190	873	553	1090	655	9380
29	566	746	833	1710	---	2150	961	866	539	917	554	6430
30	600	790	1090	1710	---	1910	909	262	534	698	1220	4030
31	800	---	689	1670	---	2050	---	708	---	752	1000	---
TOTAL	20993	26800	39672	49271	36355	60104	57280	37386	29161	33942	23543	55275
MEAN	677	893	1280	1589	1298	1939	1909	1206	972	1095	759	1843
MAX	1930	1440	2710	2910	4000	5050	5180	2480	2150	3360	1760	9680
MIN	219	598	689	633	642	984	909	262	450	312	243	553
(†)	+52.1	+141	+335	+183	+224	+391	+114	+124	+42.2	+123	-78.2	+299
MEAN‡	729	1034	1615	1772	1522	2330	2023	1330	1014	1218	681	2142
CFSM‡	1.25	1.77	2.77	3.04	2.61	4.00	3.47	2.28	1.74	2.09	1.17	3.67
IN‡	1.44	1.98	3.19	3.50	2.72	4.61	3.87	2.63	1.94	2.41	1.35	4.10

CAL YR 1974 TOTAL 409083 MEAN 1121 MAX 3600 MIN 140 MEAN‡ 1179 CFSM‡ 2.02 IN‡ 27.44
WTR YR 1975 TOTAL 469782 MEAN 1287 MAX 9680 MIN 219 MEAN‡ 1449 CFSM‡ 2.49 IN‡ 33.74

†Change in contents in Otis and West Branch Reservoirs, Mad River and Sucker Brook Detention Reservoirs, Colebrook River Lake, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs, and diversion from Barkhamsted, Nepaug and Whigville Reservoirs, and Whites Bridge pumping plant, equivalent in cubic feet per second; furnished by the Metropolitan District Commission, Corps of Engineers, Union Pin Company, Massachusetts Department of Natural Resources, Division of Forests and Parks, and the city of New Britain.

‡Adjusted for diversion and change in contents.

01190015 FARMINGTON RIVER AT WINDSOR, CONN.

LOCATION.--Lat 41°51'25", long 72°38'21", Hartford County, at bridge on State Highway 159, 0.4 mi (0.6 km) north of Windsor.

DRAINAGE AREA.--594 mi^2 (1,538 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
02...	0835	2040	6.9	8.0	14.0	8.9	86	5.6	10	110	40	20
NOV.												
04...	1110	750	7.2	23.0	12.5	10.3	96	5.9	10	180	60	10
DEC.												
18...	1250	2190	7.2	4.0	2.5	13.7	100	7.2	0	130	50	10
JAN.												
09...	1335	1330	7.1	2.0	1.0	13.9	98	7.1	0	80	50	20
FEB.												
19...	1325	1940	7.4	8.5	2.0	13.7	98	7.3	0	130	50	20
MAR.												
11...	1440	2040	7.0	4.5	3.0	13.8	102	6.1	0	80	40	10
APR.												
08...	1335	3710	7.0	7.0	4.0	13.3	102	5.8	0	80	20	10
MAY												
05...	1455	1960	7.2	12.5	11.0	11.5	104	5.6	0	130	40	10
JUNE												
10...	1450	1010	7.2	26.0	18.0	9.9	104	6.4	0	180	20	10
JULY												
23...	1430	1960	6.8	30.0	25.0	8.4	100	6.2	10	240	30	0
AUG.												
05...	1420	2040	7.3	31.0	26.5	9.4	116	5.4	0	80	0	0
SEP.												
15...	1515	1050	7.4	21.0	18.0	10.2	107	5.4	0	80	10	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
02...	6.8	1.7	16	0	13	9.3	7.4	.01	.43	.44	.57	.48
NOV.												
04...	9.4	2.2	26	0	21	13	12	.01	.63	.34	.44	.49
DEC.												
18...	8.0	2.0	22	0	18	12	12	.01	.54	.23	.30	.47
JAN.												
09...	10	2.6	26	0	21	13	15	.00	.67	.30	.39	.61
FEB.												
19...	9.9	2.5	25	0	21	12	19	.01	.71	.35	.45	.36
MAR.												
11...	8.7	2.0	18	0	15	11	11	.01	.52	.18	.23	.31
APR.												
08...	5.9	1.6	9	0	7	8.9	9.1	.01	.26	.08	.10	.21
MAY												
05...	9.7	1.8	24	0	20	13	13	.00	.49	.13	.17	.38
JUNE												
10...	7.6	1.5	20	0	16	8.9	9.6	.01	.50	.09	.12	.40
JULY												
23...	7.5	1.4	18	0	15	7.7	8.5	.00	.37	.05	.06	.47
AUG.												
05...	11	2.4	25	0	21	11	12	.01	.56	.02	.03	.20
SEP.												
15...	11	1.0	26	0	21	11	9.4	.01	.69	.12	.15	.36

01190015 FARMINGTON RIVER AT WINDSOR, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
02...	.04	.91	4.0	.14	103	73	402	.10	24	11	83	30
NOV.												
04...	.15	1.1	5.0	.18	85	75	152	.10	33	11	115	20
DEC.												
18...	.24	1.0	4.5	.09	64	77	455	.10	28	10	108	4
JAN.												
09...	.31	1.3	5.7	.17	127	71	255	.10	36	14	128	20
FEB.												
19...	.01	1.1	4.7	.17	98	73	382	.10	35	15	146	10
MAR.												
11...	.13	.83	3.7	.10	81	66	364	.09	30	15	98	10
APR.												
08...	.13	.47	2.1	.05	61	63	631	.09	21	14	81	7
MAY												
05...	.25	.87	3.9	.13	77	66	349	.09	32	12	118	10
JUNE												
10...	.31	.90	4.0	.14	658	62	169	.08	25	9	98	23
JULY												
23...	.42	.84	3.7	.14	83	56	296	.08	25	10	89	24
AUG.												
05...	.18	.76	3.4	.12	81	63	347	.09	37	17	195	6
SEP.												
15...	.24	1.1	4.6	.18	74	72	204	.10	32	10	114	3

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
02...	10	3.2	9000	1100	120	8.3	2	.0	--	--	--
NOV.											
04...	2	2.6	4600	680	180	4.7	0	.0	7.0	.0	0
DEC.											
18...	4	2.2	7100	1300	580	5.3	0	.1	.0	.0	--
JAN.											
09...	23	3.3	2100	620	450	6.0	0	.1	2.5	1.5	--
FEB.											
19...	3	1.6	800	B120	83	5.2	0	.1	--	--	--
MAR.											
11...	2	2.9	330	56	31	5.7	0	.0	--	--	--
APR.											
08...	4	1.4	190	100	41	3.4	0	.0	--	--	--
MAY											
05...	3	2.4	160	84	60	4.2	--	.1	.0	.0	--
JUNE											
10...	3	2.0	680	100	35	7.0	0	.1	.0	.0	--
JULY											
23...	6	4.6	620	140	80	5.6	0	.1	.0	.0	--
AUG.											
05...	4	2.0	3400	760	180	6.6	0	.0	.0	.0	--
SEP.											
15...	1	1.7	560	220	110	5.6	0	.0	.0	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01190015 FARMINGTON RIVER AT WINDSOR, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)
OCT. 02...	.0	4	1.4	1.2	5.1	1.5	.0	.0	.0	.0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)
OCT. 02...	0	0	0	0	6	2	14	100	10	11000

DATE	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 02...	1	3	10	14	21000	21	1500	.1	38

01190045 PODUNK RIVER NEAR SOUTH WINDSOR, CONN.

LOCATION.--Lat 41°50'07", long 72°33'43", Hartford County, at bridge on Pierce Road, 3 mi (5 km) northeast of South Windsor.

DRAINAGE AREA.--3.74 mi^2 (9.69 km^2).

PERIOD OF RECORD.--Chemical analyses: January to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JAN.												
20...	1330	6.0	7.0	-7.5	1.0	14.1	99	9.1	0	70	40	10
FEB.												
19...	1450	8.1	7.1	7.5	2.0	13.1	94	8.9	0	70	120	0
MAR.												
05...	1555	7.3	7.2	6.5	8.0	12.2	102	9.1	0	100	60	0
APR.												
07...	1520	8.0	7.4	7.5	13.0	12.4	117	7.2	0	110	50	0
MAY												
06...	1430	6.1	7.5	17.5	19.0	10.1	109	8.4	10	190	80	10
JUNE												
09...	1510	5.5	7.4	20.0	21.0	8.9	99	11	0	330	70	10
JULY												
24...	0840	4.2	6.7	28.0	20.5	4.8	53	11	0	300	80	0
AUG.												
26...	1340	1.3	6.9	22.5	18.0	7.5	79	12	0	10	30	10
SEP.												
22...	1500	3.0	6.5	21.0	16.5	7.8	80	12	0	20	20	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
JAN.												
20...	19	4.2	29	0	24	34	22	.00	1.5	.05	.06	.33
FEB.												
19...	30	6.0	45	0	37	41	69	.02	2.1	.10	.13	.24
MAR.												
05...	25	4.4	45	0	37	40	21	.01	3.1	.09	.12	.26
APR.												
07...	23	4.1	36	0	30	36	19	.01	1.9	.02	.03	.32
MAY												
06...	30	5.0	46	0	38	40	21	.01	1.7	.02	.03	.34
JUNE												
09...	26	3.6	54	0	44	38	18	.00	1.4	.03	.04	.50
JULY												
24...	28	5.3	68	0	56	30	19	.00	.73	.02	.03	.50
AUG.												
26...	38	6.4	78	0	64	52	21	.00	1.8	.01	.01	.19
SEP.												
22...	39	3.8	71	0	58	49	22	.01	1.7	.01	.01	.28

01190045 PODUNK RIVER NEAR SOUTH WINDSOR, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JAN.											
20...	.28	1.8	8.1	.02	136	140	2.27	.19	65	41	205
FEB.											
19...	.14	2.3	10	.04	208	193	4.22	.26	100	63	315
MAR.											
05...	.17	3.4	15	.02	186	156	3.07	.21	81	44	250
APR.											
07...	.30	2.2	9.8	.03	164	165	3.56	.22	74	45	218
MAY											
06...	.32	2.0	9.0	.04	175	165	2.72	.22	96	58	240
JUNE											
09...	.47	1.9	8.4	.07	194	157	2.33	.21	80	35	240
JULY											
24...	.48	1.2	5.4	.06	171	168	1.91	.23	92	36	245
AUG.											
26...	.18	2.0	8.8	.03	211	198	.70	.27	120	57	305
SEP.											
22...	.27	2.0	8.8	.03	208	194	1.57	.26	110	55	315

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)
JAN.											
20...	20	5	4.6	830	816	40	8.4	1	.1	1.5	.5
FEB.											
19...	20	6	5.7	2000	250	35	5.0	0	.1	.0	.0
MAR.											
05...	20	3	4.5	19	2	3	2.6	0	.0	.0	.0
APR.											
07...	9	3	2.3	4	3	1	4.2	0	.0	.0	.0
MAY											
06...	21	4	2.3	140	60	8	6.3	0	.0	3.3	.0
JUNE											
09...	36	4	3.4	620	120	130	11	0	.0	.0	.0
JULY											
24...	30	2	22	7500	260	230	7.2	1	.0	.0	.0
AUG.											
26...	1	1	16	460	130	320	3.0	0	.1	.0	.0
SEP.											
22...	2	1	36	820	170	140	3.9	2	.0	.0	.0

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01190055 PODUNK RIVER NEAR SOUTH WINDSOR, CONN.

LOCATION.--Lat 41°49'17', long 72°35'19", Hartford County, 50 ft (15 m) downstream from Vintons Millpond, upstream from State Highway 30.

DRAINAGE AREA.--11.9 mi^2 (30.8 km^2).

PERIOD OF RECORD.--June to September 1975.

GAGE.--Water-stage recorder. Datum of gage is 37.92 ft (11.558 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge during period, 525 ft^3/sec (14.9 m^3/s) Sept. 26, gage height, 7.80 ft (2.377 m); minimum during period, 4.4 ft^3/s (0.12 m^3/s) Aug. 29, 30, gage height, 2.65 ft (0.808 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	29	6.0	6.6	7.2
2								---	28	5.8	5.8	5.8
3								---	24	6.0	6.0	5.5
4								---	38	6.0	7.2	5.5
5								---	33	5.8	7.8	5.2
6								---	64	6.6	6.9	5.5
7								---	29	11	19	6.6
8								---	16	6.9	23	6.6
9								---	12	6.0	19	9.4
10								---	9.4	9.1	11	7.8
11								---	7.8	7.5	9.8	6.3
12								---	16	10	10	14
13								---	36	15	8.1	16
14								---	20	49	7.2	7.2
15								---	14	39	6.9	5.8
16								---	12	16	6.9	5.2
17								---	10	10	7.8	5.2
18								---	9.4	8.8	7.5	5.2
19								---	7.8	8.1	6.6	6.9
20								---	7.2	10	6.3	7.2
21								---	6.3	78	5.8	9.8
22								---	6.0	26	6.3	10
23								---	6.0	13	5.8	13
24								---	6.0	11	6.0	50
25								---	5.8	18	6.3	76
26								---	5.2	14	6.0	133
27								---	5.0	10	5.5	298
28								---	4.5	9.4	5.0	69
29								---	5.5	8.1	4.3	43
30								23	7.2	7.2	21	31
31								30	---	6.9	14	---
TOTAL									480.1	444.2	275.4	876.9
MEAN									16.0	14.3	8.88	29.2
MAX									64	78	23	298
MIN									4.5	5.8	4.3	5.2
CFSM									1.34	1.20	.75	2.45
IN.									1.50	1.39	.86	2.74

01190069 CONNECTICUT RIVER AT HARTFORD, CONN.

LOCATION.--Lat 41°46'36", long 72°39'29", Hartford County, at Penn Central Co. railroad bridge, at Hartford.

DRAINAGE AREA.--10,486 mi^2 (27,159 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.												
08...	1440	7.2	14.0	13.5	9.0	86	5.0	0	180	30	20	11
NOV.												
06...	1140	7.1	15.0	12.0	9.0	83	5.3	0	160	40	30	12
DEC.												
11...	1200	7.1	7.5	2.0	13.8	100	5.8	0	520	30	20	11
JAN.												
15...	1225	7.0	.0	1.0	13.8	98	6.1	0	130	40	20	10
FEB.												
18...	1130	7.0	2.0	.5	13.4	93	6.5	0	160	60	10	12
MAR.												
12...	1130	7.0	4.0	2.5	13.2	96	5.8	0	100	40	10	10
APR.												
16...	1210	6.9	13.5	8.0	11.5	97	5.6	0	120	30	10	10
MAY												
14...	1140	7.1	23.0	16.0	8.7	88	5.0	0	100	20	10	8.7
JUNE												
18...	1150	6.9	28.5	19.5	7.7	82	5.2	20	140	20	10	8.6
JULY												
09...	1100	7.7	26.5	26.0	9.4	115	3.0	10	10	10	100	13
AUG.												
06...	1130	7.2	24.0	26.5	7.6	94	3.5	10	20	0	0	12
SEP.												
17...	1130	7.0	19.0	18.0	8.3	87	4.0	10	50	10	10	14

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.											
08...	2.2	32	0	26	11	8.2	.01	.33	.43	.55	.49
NOV.											
06...	1.9	32	0	26	13	10	.01	.53	.33	.43	.58
DEC.											
11...	1.8	26	0	21	12	7.9	.02	.35	.38	.49	.57
JAN.											
15...	1.8	23	0	19	10	9.4	.00	.38	.20	.26	.68
FEB.											
18...	1.8	29	0	24	12	14	.01	.55	.33	.43	.43
MAR.											
12...	1.8	27	0	22	13	13	.01	.51	.22	.28	.51
APR.											
16...	3.0	21	0	17	10	9.2	.01	.42	.11	.14	.30
MAY											
14...	1.4	22	0	18	9.4	5.1	.01	.37	.05	.06	.32
JUNE											
18...	1.4	23	0	19	10	6.9	.01	.29	.08	.10	.44
JULY											
09...	1.9	32	0	26	15	13	.01	.25	.00	.00	.74
AUG.											
06...	1.9	32	0	26	9.5	11	.01	.21	.00	.00	.74
SEP.											
17...	1.0	32	0	26	13	10	.01	.34	.03	.04	.50

01190069 CONNECTICUT RIVER AT HARTFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.											
08...	.06	.82	3.6	.19	95	81	.11	37	10	115	10
NOV.											
06...	.25	1.1	4.9	.14	86	81	.11	38	12	116	10
DEC.											
11...	.19	.92	4.1	.10	93	63	.09	35	14	92	20
JAN.											
15...	.48	1.1	4.7	.07	75	74	.10	32	14	105	7
FEB.											
18...	.10	.98	4.3	.08	83	52	.07	37	14	146	10
MAR.											
12...	.29	1.0	4.5	.09	90	77	.10	32	10	122	10
APR.											
16...	.19	.72	3.2	.13	77	52	.07	37	20	104	6
MAY											
14...	.27	.69	3.1	.08	72	56	.08	28	9	102	6
JUNE											
18...	.36	.73	3.2	.08	72	57	.08	27	8	89	27
JULY											
09...	.74	.99	4.4	.16	136	91	.12	40	14	140	2
AUG.											
06...	.74	.95	4.2	.08	87	63	.09	38	12	123	17
SEP.											
17...	.47	.84	3.7	.06	114	76	.10	39	13	124	1

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
08...	2	3.2	100000	7100	260	6.6	1	.0	12	10	--
NOV.											
06...	3	4.1	150000	7700	1200	6.1	1	.0	6.5	.0	0
DEC.											
11...	5	3.3	20000	4100	1100	5.3	0	.0	3.0	.0	--
JAN.											
15...	4	3.7	19000	2600	560	4.8	0	.1	--	--	--
FEB.											
18...	2	4.6	30000	860	760	4.2	0	.1	.0	.0	--
MAR.											
12...	4	4.3	21000	5800	1400	5.9	0	.1	.0	.0	--
APR.											
16...	3	4.2	24000	4000	420	4.7	1	.0	.0	.0	--
MAY											
14...	5	2.8	25000	2400	300	4.1	0	.0	.0	.0	--
JUNE											
18...	3	4.6	240000	12000	680	4.4	0	.0	.0	.0	--
JULY											
09...	5	1.0	20000	2000	100	6.4	0	.1	40	5.3	--
AUG.											
06...	4	3.2	20000	2800	60	8.4	0	.1	33	.0	--
SEP.											
17...	2	5.1	44000	5300	420	7.1	0	.0	14	.0	--

01190069 CONNECTICUT RIVER AT HARTFORD, CONN.--continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)
OCT. 08...	.0	6	.0	.0	.6	.6	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 08...	0	0	.0	.0	.0	.0	.0	.0	.0	34	2	8

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 08...	100	3.6	2500	2	1	9	12	150000	15	3800	.1	73

01190070 CONNECTICUT RIVER AT HARTFORD, CONN.

LOCATION.--Lat 41°46'10", long 72°40'04", Hartford County, at Bulkeley Memorial Bridge at Hartford, Conn.

DRAINAGE AREA.--10,487 mi^2 (27,161 km^2).

PERIOD OF RECORD.--January 1905 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records prior to 1973 available at the River Forecast Center, NOAA, Bloomfield, Conn. Datum of River Forecast Center gage is 0.55 ft (0.168 m) below mean sea level. At times of high fresh-water inflow, tide effect is eliminated. Stage data in feet at 15-minute intervals available upon request.

ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	4.81	8.17	7.82	6.56	10.46	15.58	15.49	11.10	8.04	8.41	8.01	17.44
	Date	2	23	11	14	26	22	22	6	14	15	9	28
	Time	1745	1030	0415	1700	1515	1330	1345	1130	1945	2015	1945	0930
Minimum	Elevation	.70	1.32	2.02	1.48	1.83	2.36	4.96	1.74	.45	.56	.39	.39
	Date	27	4	30	6	10	17	14	29	29	7	27	14
	Time	2245	1315	1115	0600	1115	1400	1245	1430	1430	0915	1430	1815

NOTE.--Time shown is eastern standard.

01190500 SOUTH BRANCH PARK RIVER AT HARTFORD, CONN.

LOCATION.--Lat 41°44'02", long 72°42'51", Hartford County, on left bank 100 ft (30 m) downstream from bridge on Newfield Avenue in Hartford, 0.7 mi (1.1 km) downstream from confluence of Trout Brook and Piper Brook, and 3.3 mi (5.3 km) upstream from confluence with North Branch.

DRAINAGE AREA.--39.9 mi^2 (103.3 km^2).

PERIOD OF RECORD.--Discharge: October 1936 to current year.
Chemical analyses: October 1968 to September 1969.
Specific conductance: August 1968 to September 1969.

GAGE.--Water-stage recorder. Datum of gage is 25.51 ft (7.775 m) above mean sea level. Prior to July 6, 1972, water-stage recorder 150 ft (46 m) upstream at datum 5.56 ft (1.695 m) higher. Apr. 10, 1973 to Aug. 25, 1975, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--39 years, 72.4 ft^3/s (2.050 m^3/s), 24.64 in/yr (626 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,320 ft^3/s (151 m^3/s) Sept. 27, gage height, 12.86 ft (3.920 m); minimum, 11 ft^3/s (0.31 m^3/s) Sept. 18, 19.

Period of record: Maximum discharge, 5,320 ft^3/s (151 m^3/s) Sept. 27, 1975; maximum gage height, 19.65 ft (5.989 m), Aug. 19, 1955, from floodmarks, site and datum then in use; minimum daily discharge, 3.5 ft^3/s (0.099 m^3/s) July 16, 1965.
Specific conductance: Maximum, 1,750 micromhos Jan. 30, 1969; minimum, 102 micromhos Sept. 9, 1969.

Flood of Mar. 12, 1936, reached a stage of 12.1 ft (3.69 m), site and datum then in use, determined by Hartford City Engineers from floodmarks.

REMARKS.--Records fair except those for the period Aug. 26 to Sept. 27, which are good. Some regulation by dams upstream and by storage and diversion at Hartford water-supply reservoirs on headwater streams. Some regulation at high flow by Talcott, South, Burnt Hill, and Bugbee Detention Reservoirs on tributaries of Trout Brook. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	110	80	90	85	90	72	48	30	30	49	17
2	73	60	770	71	80	85	69	45	26	28	48	17
3	54	44	153	70	73	76	1100	60	38	26	48	16
4	54	33	102	60	71	65	270	200	154	25	48	14
5	30	93	90	50	60	62	190	111	178	20	48	20
6	26	45	84	46	93	62	150	115	329	40	49	31
7	23	45	75	124	79	60	115	236	150	45	49	30
8	23	46	120	70	75	70	83	74	80	35	110	32
9	21	40	188	500	70	60	76	67	39	35	60	79
10	23	40	122	175	65	56	74	50	39	45	50	18
11	20	45	95	500	65	43	62	45	39	50	40	16
12	23	59	90	300	60	43	60	200	178	200	40	91
13	23	147	88	200	60	72	60	250	132	500	38	47
14	24	66	80	180	60	76	60	70	300	955	38	20
15	25	36	70	124	70	65	46	59	150	510	35	17
16	250	30	62	102	65	70	43	76	57	178	30	16
17	150	25	192	101	60	74	56	65	42	74	25	14
18	60	23	112	180	91	62	54	60	42	67	20	12
19	31	53	90	200	116	60	50	56	39	65	20	28
20	27	62	76	155	112	600	50	52	39	60	20	20
21	27	175	74	140	95	450	56	49	38	60	20	23
22	24	76	74	108	90	100	43	43	37	54	20	17
23	25	70	73	99	150	90	43	39	36	54	21	184
24	23	60	68	97	520	83	80	35	36	54	21	474
25	68	56	70	350	425	101	79	32	36	51	21	767
26	36	59	84	400	176	79	72	30	36	50	18	1460
27	23	28	63	101	125	72	66	36	33	50	17	2520
28	23	30	60	88	101	65	62	45	80	52	15	466
29	23	31	50	136	---	70	56	39	70	52	15	186
30	23	35	66	90	---	84	52	45	60	49	140	117
31	310	---	68	88	---	76	---	35	---	49	25	---
TOTAL	1677	1722	3489	4995	3192	3121	3349	2367	2543	3563	1198	6769
MEAN	54.1	57.4	113	161	114	101	112	76.4	84.8	115	38.6	226
MAX	310	175	770	500	520	600	1100	250	329	955	140	2520
MIN	20	23	50	46	60	43	43	30	26	20	15	12
CFSM	1.36	1.44	2.83	4.04	2.86	2.53	2.81	1.91	2.13	2.88	.97	5.66
IN.	1.56	1.61	3.25	4.66	2.98	2.91	3.12	2.21	2.37	3.32	1.12	6.31

CAL YR 1974 TOTAL 26697.0 MEAN 73.1 MAX 770 MIN 5.0 CFSM 1.83 IN 24.89
WTR YR 1975 TOTAL 37985.0 MEAN 104 MAX 2520 MIN 12 CFSM 2.61 IN 35.41

01191000 NORTH BRANCH PARK RIVER AT HARTFORD, CONN.

LOCATION.--Lat 41°47'03", long 72°42'31", Hartford County, on right bank 60 ft (18 m) downstream from stone-arch bridge on Albany Avenue in Hartford, and 3 mi (5 km) upstream from confluence with South Branch.

DRAINAGE AREA.--25.1 mi^2 (65.0 km^2).

PERIOD OF RECORD.--Discharge: October 1936 to current year.
Chemical analyses: April 1954, August 1968, October 1968 to September 1969, August 1970.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 34.20 ft (10.424 m) above mean sea level.

AVERAGE DISCHARGE.--39 years, 37.6 ft^3/s (1.065 m^3/s), 20.34 in/yr (516 mm/yr).

EXTREMES.--Current year: Maximum discharge 2,480 ft^3/s (70.2 m^3/s) Sept. 27, gage height, 10.29 ft (3.136 m); minimum, 3.2 ft^3/s (0.091 m^3/s) July 5, 6; minimum gage height, 1.40 ft (0.427 m) Oct. 11, July 5, 6.

Period of record: Maximum discharge, 10,000 ft^3/s (283 m^3/s) Aug. 19, 1955, from rating curve extended above 1,600 ft^3/s (45.3 m^3/s) on basis of slope-area measurement of peak flow 2.6 mi (4.2 km) upstream; maximum gage height, 18.8 ft (5.73 m) Aug. 19, 1955, from floodmarks; minimum discharge, 0.04 ft^3/s (0.001 m^3/s) Sept. 24, 25, 1943, gage height, 0.75 ft (0.229 m); minimum daily, 0.4 ft^3/s (0.011 m^3/s) Sept. 24, 1943.
Specific conductance: Maximum, 1,100 micromhos Jan. 30, 1969; minimum, 50 micromhos June 20, 21, 1969.

Flood of March 12, 1936, reached a stage of 11.2 ft (3.42 m), as determined from floodmarks by city engineers of Hartford, discharge about 2,800 ft^3/s (79 m^3/s).

REMARKS.--Records good. Some regulation at small dams upstream and by storage and diversion at a Hartford water supply reservoir on headwater stream. High flow regulated by Bloomfield, Cold Spring, Wintonbury, and Blue Hills Reservoirs, on tributaries of North Branch Park River. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	34	18	37	30	43	37	12	13	7.8	7.2	10
2	17	20	259	30	27	38	34	13	12	5.6	6.6	6.6
3	13	15	153	21	25	32	354	14	8.5	6.1	4.7	6.6
4	11	18	52	21	22	30	304	26	30	3.7	4.7	4.3
5	9.6	30	35	20	20	25	67	67	17	3.3	6.6	4.2
6	8.9	39	30	20	26	26	42	28	126	8.5	7.2	4.2
7	8.5	21	27	21	25	26	33	77	48	12	43	3.9
8	8.5	17	60	21	23	32	27	32	23	6.1	83	3.6
9	7.6	14	171	179	21	25	23	21	17	6.6	55	12
10	7.3	13	60	97	21	22	20	17	15	16	20	4.2
11	6.4	13	37	186	20	28	19	15	12	10	17	3.8
12	6.7	15	31	111	19	26	17	64	42	29	18	17
13	6.4	94	28	204	18	40	16	77	158	87	15	18
14	6.4	34	26	108	17	33	15	35	119	251	11	5.1
15	7.3	22	24	55	16	27	15	21	55	172	7.2	3.8
16	117	18	24	48	20	34	15	28	42	56	6.6	3.7
17	74	16	174	45	30	43	13	20	30	32	7.8	4.2
18	25	19	69	116	57	33	13	13	23	27	8.5	4.3
19	16	18	40	140	95	52	13	15	19	18	6.1	5.6
20	14	23	32	90	133	430	12	13	15	16	4.2	7.8
21	12	120	30	50	48	116	11	11	11	169	3.9	6.6
22	12	48	30	41	45	59	10	10	9.1	40	7.8	6.6
23	12	29	27	37	92	54	8.5	9.2	8.7	20	4.3	47
24	11	25	27	33	398	48	30	10	10	16	5.1	278
25	12	26	25	128	324	70	35	10	8.5	47	7.8	465
26	14	23	24	137	97	49	37	7.2	6.6	20	7.8	566
27	12	16	23	62	60	34	21	14	5.6	11	6.6	1280
28	11	17	22	43	47	28	16	25	6.6	10	4.7	301
29	11	18	21	78	---	29	13	12	23	10	3.8	90
30	12	18	26	58	---	66	12	11	18	7.8	72	57
31	117	---	26	36	---	53	---	17	---	7.2	21	---
TOTAL	640.6	833	1631	2273	1776	1651	1282.5	744.4	931.6	1131.7	484.2	3230.1
MEAN	20.7	27.8	52.6	73.3	63.4	53.3	42.8	24.0	31.1	36.5	15.6	108
MAX	117	120	259	204	398	430	354	77	158	251	83	1280
MIN	6.4	13	18	20	16	22	8.5	7.2	5.6	3.3	3.8	3.6
CFSM	.82	1.11	2.10	2.92	2.53	2.12	1.71	.96	1.24	1.45	.62	4.30
IN.	.95	1.23	2.42	3.37	2.63	2.45	1.90	1.10	1.38	1.68	.72	4.79

CAL YR 1974 TOTAL 13363.5 MEAN 36.6 MAX 371 MIN 3.5 CFSM 1.46 IN 19.81
WTR YR 1975 TOTAL 16609.1 MEAN 45.5 MAX 1280 MIN 3.3 CFSM 1.81 IN 24.62

01191510 PARK RIVER AT HARTFORD, CONN.

LOCATION.--Lat 41°45'50", long 72°41'13", Hartford County, at bridge on Broad Street, at Hartford.

DRAINAGE AREA.--73.0 mi^2 (189.1 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
30...	0835	35	7.6	15.5	10.5	7.9	71	8.8	20	90	130	30
NOV.												
13...	1025	259	7.4	11.0	10.0	9.4	83	5.4	20	230	130	40
DEC.												
17...	1130	510	7.3	7.5	2.0	13.4	96	5.4	0	160	90	30
JAN.												
09...	0940	345	7.5	4.0	3.5	12.6	95	6.0	10	60	110	30
FEB.												
18...	0920	33	7.5	1.0	2.0	12.9	93	7.7	10	80	180	30
MAR.												
11...	0930	102	7.7	1.0	2.0	13.0	94	8.0	0	50	180	10
APR.												
08...	0915	148	7.5	2.0	4.5	11.8	92	8.6	0	130	120	20
MAY												
05...	0930	243	7.2	11.0	10.0	9.6	85	5.3	10	130	110	10
JUNE												
10...	0910	92	7.4	19.0	15.0	7.1	70	9.8	0	140	160	10
JULY												
23...	0910	108	7.2	26.5	23.0	6.3	72	10	10	140	110	10
AUG.												
05...	0900	53	7.2	27.0	23.0	6.4	74	8.5	0	30	120	10
SEP.												
15...	0940	41	7.4	16.0	14.0	5.7	55	9.2	10	50	180	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
30...	43	13	133	0	109	52	40	.01	.70	.46	.59	.97
NOV.												
13...	20	7.0	57	0	47	27	16	.01	.38	.34	.44	.93
DEC.												
17...	16	5.0	44	0	36	19	47	.02	.55	.17	.22	.70
JAN.												
09...	29	25	72	0	59	38	150	.01	.64	.34	.44	.80
FEB.												
18...	30	8.7	80	0	66	36	110	.04	.90	.26	.33	.41
MAR.												
11...	34	10	101	0	83	40	57	.02	.95	.19	.24	.51
APR.												
08...	29	8.5	80	0	66	29	31	.02	.72	.10	.13	.44
MAY												
05...	21	6.4	62	0	51	22	19	.00	--	--	--	--
JUNE												
10...	31	8.9	96	0	79	37	26	.01	.70	.25	.32	.79
JULY												
23...	11	9.1	93	0	76	35	27	.00	.52	.10	.13	.67
AUG.												
05...	43	12	102	0	84	68	25	.02	.47	.17	.22	.49
SEP.												
15...	47	12	126	0	103	65	29	.01	.68	.28	.36	.85

01191510 PARK RIVER AT HARTFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
30...	.51	1.7	7.4	.32	298	268	25.3	.36	160	52	440	20
NOV.												
13...	.59	1.3	5.8	.35	240	136	95.1	.19	79	32	206	80
DEC.												
17...	.53	1.3	5.5	.16	216	170	234	.23	61	24	288	50
JAN.												
09...	.46	1.4	6.4	.56	399	380	354	.52	180	120	412	50
FEB.												
18...	.15	1.3	5.8	.09	335	328	29.2	.45	110	45	595	20
MAR.												
11...	.32	1.5	6.5	.20	244	243	66.9	.33	130	43	400	9
APR.												
08...	.34	1.2	5.1	.07	204	196	78.3	.27	110	42	290	14
MAY												
05...	--	--	--	.12	190	135	88.6	.18	79	28	210	27
JUNE												
10...	.54	1.5	6.6	.15	242	204	50.7	.28	110	35	320	16
JULY												
23...	.57	1.2	5.3	.13	253	215	62.7	.29	65	0	300	18
AUG.												
05...	.32	.96	4.3	.09	279	243	34.8	.33	160	73	380	7
SEP.												
15...	.57	1.5	6.8	.13	307	280	31.0	.38	170	63	390	7

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
30...	9	5.3	180000	37000	13000	9.0	1	.2	.0	.0	--
NOV.											
13...	34	3.6	190000	16000	24000	17	2	.1	10	.0	3
DEC.											
17...	10	3.5	55000	11000	3200	7.9	0	.1	1.5	.0	--
JAN.											
09...	17	3.6	160000	18000	8900	17	2	.2	23	2.0	--
FEB.											
18...	8	4.0	88000	6500	1800	4.6	1	.1	.0	.0	--
MAR.											
11...	5	3.2	60000	16000	2600	6.0	1	.1	--	--	--
APR.											
08...	8	4.0	17000	7000	1300	5.3	0	.1	.0	.0	--
MAY											
05...	11	6.3	22000	9500	2200	12	0	--	3.5	.0	--
JUNE											
10...	3	6.1	240000	62000	1800	9.1	0	.1	.0	.0	--
JULY											
23...	10	9.4	22000	24000	9800	6.1	0	.0	.0	.0	--
AUG.											
05...	5	10	14000	1900	750	8.8	0	.1	.0	.0	--
SEP.											
15...	2	8.0	750000	250000	7100	6.3	0	.1	.0	.0	--

01191510 PARK RIVER AT HARTFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 30...	.0	10	3.7	.0	2.1	3.1	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 30...	0	0	.0	.0	.0	.0	.0	.0	.0	350	5	11

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 30...	100	4.3	31500	4	2	38	37	5200	160	240	.1	72

01192370 PORTER BROOK NEAR MANCHESTER, CONN.

LOCATION.--Lat 41°45'55", long 72°30'12", Hartford County, at Oak Grove Nature Center, 0.6 mi (1.0 km) upstream from Autumn Street bridge.

DRAINAGE AREA.--2.20 mi^2 (5.70 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JULY												
22...	1320	1.1	6.7	29.0	24.0	7.5	88	9.7	0	140	20	0
AUG.												
26...	1130	.80	6.3	20.5	18.0	9.2	97	11	0	60	10	10
SEP.												
22...	1330	.80	6.6	21.5	17.5	9.1	95	12	10	170	240	40

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
JULY												
22...	13	1.8	26	0	21	10	20	.01	.43	.03	.04	.29
AUG.												
26...	19	3.1	26	0	21	15	27	.00	.56	.06	.08	.25
SEP.												
22...	28	2.1	103	0	84	42	42	.01	.01	7.3	9.4	8.2

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
JULY											
22...	.26	.72	3.2	.04	100	105	.31	.14	40	19	140
AUG.											
26...	.19	.81	3.6	.01	154	116	.25	.16	60	39	180
SEP.											
22...	.90	8.2	36	1.9	125	121	.26	.16	79	0	185

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)
JULY											
22...	8	2	8.3	1000	48	1100	3.2	0	.0	.0	.0
AUG.											
26...	1	1	21	180	45	280	3.5	0	.1	.0	.0
SEP.											
22...	4	1	41	120	61	110	6.1	1	.0	.0	.0

01192516 HOCKANUM RIVER AT EAST HARTFORD, CONN.

LOCATION.--Lat 41°45'22", long 72°38'36", Hartford County, at mouth at bridge on State Highway 2, at East Hartford.

DRAINAGE AREA.--76.1 mi^2 (197.1 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

REMARKS.--Where listed, instantaneous discharge figures are derived from the gaging station near East Hartford, Conn. (sta 01192500).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
09...	1435	102	7.1	13.0	14.0	7.6	73	10	20	260	190	70
NOV.												
04...	1335	103	7.1	21.5	14.0	7.2	69	12	20	350	240	60
DEC.												
17...	1405	369	7.1	8.0	4.0	12.7	96	8.3	10	180	110	50
JAN.												
09...	1100	328	7.2	2.0	5.0	11.6	90	12	10	130	170	60
FEB.												
19...	1110	123	7.1	8.5	5.0	10.9	85	12	10	170	250	160
MAR.												
10...	0925	146	7.1	-4.0	3.0	12.0	90	9.5	0	270	150	20
APR.												
15...	1500	151	6.9	14.0	11.0	9.2	83	10	10	230	160	40
MAY												
07...	0935	257	6.6	19.0	13.0	8.0	75	7.7	10	160	130	20
JUNE												
11...	0930	94	6.7	23.0	20.0	4.6	50	11	0	210	260	30
JULY												
22...	1445	146	6.9	28.0	26.0	6.8	83	9.3	10	240	190	20
AUG.												
26...	0940	45	6.9	21.0	21.0	6.7	74	9.1	10	150	250	20
SEP.												
22...	1045	48	6.5	23.5	20.5	4.3	47	11	0	60	10	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
09...	21	5.7	62	0	51	33	29	.03	1.8	6.3	8.1	6.8
NOV.												
04...	24	4.2	70	0	57	36	32	.02	2.1	4.5	5.8	5.5
DEC.												
17...	14	3.0	30	0	25	21	32	.02	1.1	1.6	2.1	2.4
JAN.												
09...	21	4.8	56	0	46	31	52	.00	2.2	.15	.19	1.1
FEB.												
19...	22	4.6	63	0	52	43	77	.01	2.0	.20	.26	3.3
MAR.												
10...	19	3.7	51	0	42	29	28	.02	1.9	2.5	3.2	3.1
APR.												
15...	19	4.0	53	0	43	27	29	.01	1.7	3.3	4.3	4.2
MAY												
07...	19	2.9	36	0	30	20	20	.01	--	--	--	--
JUNE												
11...	22	3.0	59	0	48	32	34	.01	2.1	2.1	2.7	3.0
JULY												
22...	18	3.1	50	0	41	24	27	.01	1.4	1.8	2.3	4.0
AUG.												
26...	28	4.9	82	0	67	38	39	.00	1.9	3.4	4.4	7.5
SEP.												
22...	17	1.0	37	0	30	15	26	.01	.48	.00	.00	.18

01192516 HOCKANUM RIVER AT EAST HARTFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
09...	.50	8.6	38	1.2	236	183	50.4	.25	76	25	292	8
NOV.												
04...	1.0	7.6	34	1.9	222	179	49.8	.24	77	20	300	20
DEC.												
17...	.80	3.5	16	.46	135	136	136	.19	47	23	220	10
JAN.												
09...	.95	3.3	15	1.3	216	207	183	.28	72	26	315	10
FEB.												
19...	3.1	5.3	23	1.3	284	259	86.0	.35	74	22	460	20
MAR.												
10...	.60	5.0	22	.89	154	150	59.1	.20	63	21	238	10
APR.												
15...	.90	5.9	26	1.1	184	169	68.9	.23	64	20	265	13
MAY												
07...	--	--	--	.72	130	119	82.6	.16	59	30	195	16
JUNE												
11...	.90	5.1	23	1.2	211	176	44.7	.24	67	19	280	23
JULY												
22...	2.2	5.4	24	1.4	190	150	59.1	.20	58	17	250	16
AUG.												
26...	4.1	9.4	42	1.2	257	186	22.6	.25	90	23	350	5
SEP.												
22...	.18	.66	2.9	.01	233	212	27.5	.29	47	16	390	1

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
09...	10	7.9	>800000	B330000	B56000	23	1	.6	--	--	--
NOV.											
04...	3	8.9	2500000	580000	78000	19	6	.6	3.5	1.0	0
DEC.											
17...	8	3.8	640000	88000	14000	8.2	1	.2	.0	.0	--
JAN.											
09...	65	5.7	860000	120000	50000	14	2	.2	3.0	1.5	--
FEB.											
19...	14	8.0	3300000	190000	36000	4.8	3	.3	.0	.0	--
MAR.											
10...	5	6.5	1800000	87000	20000	9.6	3	.2	--	--	--
APR.											
15...	10	11	780000	280000	12000	12	3	.4	.0	.0	--
MAY											
07...	7	14	80000	35000	<25	5.3	0	--	.0	.0	--
JUNE											
11...	10	19	21000	<100	100	16	0	.2	5.5	.0	--
JULY											
22...	8	10	8800	1600	110	5.8	3	.5	.0	.0	--
AUG.											
26...	10	17	9200	580	60	16	1	.2	17	.0	--
SEP.											
22...	15	19	10000	75	1400	18	1	.3	.0	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01192516 HOCKANUM RIVER AT EAST HARTFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 09...	.0	0	1.2	.0	.0	.4	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 09...	0	0	.0	.0	.0	.0	.0	.0	.0	26	0	2

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 09...	100	2.1	2900	1	0	6	26	48000	30	280	.0	50

01192600 SOUTH BRANCH SALMON BROOK AT BUCKINGHAM, CONN.

LOCATION.--Lat 41°43'05", long 72°32'25", Hartford County, on left bank just upstream from culvert on Keeney Street at Buckingham.

DRAINAGE AREA.--0.94 mi^2 (2.43 km^2).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder and compound sharp-crested weir. Datum of gage is 203.41 ft (61.999 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 1.54 ft^3/s (0.0436 m^3/s), 22.25 in/yr (565 mm/yr).

EXTREMES.--Current year: Maximum discharge, 35 ft^3/s (0.99 m^3/s), gage height, 2.71 ft (0.826 m); minimum, 0.79 ft^3/s (0.022 m^3/s) Sept. 4, 5, 7, 8, 11, gage height, 0.95 ft (0.290 m).

Period of record: Maximum discharge, 115 ft^3/s (3.26 m^3/s) Sept. 19, 1972, gage height, 5.00 ft (1.524 m); minimum, 0.18 ft^3/s (0.005 m^3/s) Oct. 5, 1966, gage height, 0.78 ft (0.238 m).

PEAK DISCHARGE.--(BASE, 12 ft^3/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-31	0630	2.51	28	06-29	1500	1.85	12
12-02	1100	1.88	12	07-13	1300	2.13	19
12-08	2030	1.84	12	08-11	1600	1.91	14
03-20	0300	2.14	19	09-24	1530	2.01	16
04-03	1300	2.13	19	09-26	1830	2.71	35
06-06	0700	1.89	13				

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.8	1.1	1.7	2.0	2.3	2.2	2.0	1.5	1.2	.91	.85
2	1.2	1.5	6.9	1.6	1.9	2.2	2.2	2.2	1.3	1.2	.91	.85
3	1.1	1.4	2.8	1.5	1.8	2.1	6.2	1.9	1.3	1.2	.91	.85
4	1.1	1.5	1.9	1.5	1.7	2.1	3.6	2.7	1.4	1.1	.91	.82
5	1.1	1.7	1.7	1.4	1.9	2.1	3.1	2.3	1.7	1.1	.91	.82
6	1.1	1.5	1.7	1.4	1.9	2.1	3.0	2.0	3.8	1.2	.94	.82
7	1.0	1.4	1.7	1.9	1.8	2.1	2.8	2.7	1.7	1.2	1.4	.82
8	1.0	1.3	3.9	1.6	1.7	2.4	2.7	2.0	1.5	1.1	2.1	.94
9	.98	1.3	3.6	2.4	1.7	2.0	2.6	1.9	1.4	1.1	1.1	1.2
10	.98	1.3	2.3	2.1	1.6	1.9	2.6	1.9	1.4	1.1	1.0	.82
11	.94	1.3	2.0	2.2	2.0	2.0	2.5	1.8	1.3	1.3	1.5	.82
12	.94	1.3	1.9	2.3	1.9	2.0	2.6	1.7	3.0	2.0	1.1	2.0
13	.94	1.7	1.9	2.7	1.9	2.0	2.5	2.5	2.5	2.5	1.0	.98
14	.94	1.3	1.8	2.9	1.8	1.7	2.5	1.8	1.8	1.7	.98	.85
15	.91	1.3	1.7	2.5	1.8	1.8	2.4	1.7	1.7	1.4	.98	.85
16	4.3	1.2	2.2	2.3	1.8	1.8	2.4	2.2	1.6	1.1	.98	.85
17	1.7	1.2	2.7	2.3	2.0	1.8	2.3	1.8	1.6	1.1	.98	.82
18	1.3	1.2	1.9	3.0	2.2	1.7	2.3	1.7	1.5	1.0	.94	.82
19	1.2	1.2	1.8	2.8	3.0	2.8	2.3	1.6	1.4	1.0	.94	.82
20	1.2	1.4	1.7	2.4	3.5	7.2	2.2	1.5	1.4	1.2	.91	.85
21	1.1	2.0	1.7	2.1	3.0	3.2	2.1	1.5	1.3	1.8	.91	.91
22	1.1	1.4	1.7	2.1	2.5	2.9	2.1	1.5	1.3	1.1	.94	.85
23	1.1	1.3	1.7	1.9	3.0	2.7	2.1	1.5	1.3	.98	.91	2.3
24	1.1	1.3	1.7	2.0	4.5	3.3	2.9	1.4	1.3	.94	1.0	3.1
25	1.3	1.2	1.7	3.2	6.0	3.2	2.5	1.4	1.3	1.6	.94	2.7
26	1.1	1.2	1.6	2.7	2.8	3.0	2.4	1.4	1.2	1.1	.91	5.5
27	1.1	1.2	1.5	2.2	2.6	3.0	2.1	1.4	1.2	.98	.88	4.1
28	1.1	1.2	1.5	2.1	2.3	2.7	2.0	1.4	1.3	.94	.85	2.1
29	1.0	1.1	1.5	2.5	---	2.2	1.9	1.3	2.0	.94	.85	1.7
30	1.0	1.1	1.6	2.2	---	2.9	2.0	1.4	1.3	.94	1.7	1.5
31	5.1	---	1.5	2.0	---	2.5	---	1.7	---	.91	.91	---
TOTAL	41.23	40.8	64.9	67.5	66.6	77.7	77.1	55.8	48.3	38.03	32.20	43.21
MEAN	1.33	1.36	2.09	2.18	2.38	2.51	2.57	1.80	1.61	1.23	1.04	1.44
MAX	5.1	2.0	6.9	3.2	6.0	7.2	6.2	2.7	3.8	2.5	2.1	5.5
MIN	.91	1.1	1.1	1.4	1.6	1.7	1.9	1.3	1.2	.91	.85	.82
CFSM	1.41	1.45	2.22	2.32	2.53	2.67	2.73	1.91	1.71	1.31	1.11	1.53
IN.	1.63	1.61	2.57	2.67	2.64	3.07	3.05	2.21	1.91	1.51	1.27	1.71

CAL YR 1974 TOTAL 718.49 MEAN 1.97 MAX 6.9 MIN .79 CFSM 2.10 IN 28.43
WTR YR 1975 TOTAL 653.37 MEAN 1.79 MAX 7.2 MIN .82 CFSM 1.90 IN 25.86

01192890 COGINCHAUG RIVER AT ROCKFALL, CONN.

LOCATION.--Lat 41°32'10", long 72°41'16", Middlesex County, on left bank just downstream from bridge on State Highway 157, 0.5 mi (0.8 km) northeast of Rockfall, and 2.5 mi (4.0 km) southwest of Middletown.

DRAINAGE AREA.--34.7 mi^2 (89.9 km^2).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 61.16 ft (18.642 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 58.5 ft^3/s (1.657 m^3/s), 22.90 in/yr (582 mm/yr).

EXTREMES.--Current year: Maximum discharge, 460 ft^3/s (13.0 m^3/s) Dec. 8, gage height, 3.25 ft (0.991 m); minimum, 4.0 ft^3/s (0.11 m^3/s) Sept. 11, gage height, 0.76 ft (0.232 m).

Period of record: Maximum discharge, 1,500 ft^3/s (42.5 m^3/s) Feb. 3, 1973, gage height, 5.63 ft (1.716 m); minimum, 0.30 ft^3/s (0.008 m^3/s) Aug. 2, 1964; minimum daily, 0.90 ft^3/s (0.025 m^3/s) July 8, 15, Aug. 5, 8, 1962, July 17, 1965; minimum gage height, 0.49 ft (0.149 m) July 17, 1965.

PEAK DISCHARGE.--(BASE, 400 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-08	1930	3.25	460
09-26	1930	3.09	412

REMARKS.--Records excellent. Some regulation at low flow by Beseck Lake and industrial plants upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	52	26	56	92	113	80	33	23	30	7.8	8.3
2	64	30	146	58	79	95	69	36	23	23	7.3	8.3
3	48	24	218	53	69	82	185	40	19	17	6.8	6.4
4	33	20	204	51	61	67	298	45	18	12	6.4	5.3
5	24	21	164	47	54	59	257	69	16	11	6.1	4.6
6	20	26	129	41	53	54	202	73	53	8.8	5.3	4.6
7	17	26	106	53	56	51	157	79	56	7.8	11	4.6
8	15	24	187	57	54	53	123	69	51	7.3	13	4.3
9	14	20	338	110	54	47	100	57	39	10	15	4.6
10	13	18	323	153	54	41	83	48	28	10	13	4.6
11	12	16	246	168	46	41	71	44	21	11	11	4.3
12	12	16	189	172	50	45	62	40	26	16	7.8	7.3
13	11	34	153	202	45	52	56	53	85	24	6.4	11
14	11	38	130	223	40	52	51	61	116	35	5.7	8.8
15	12	38	111	187	32	50	47	59	116	48	5.3	8.8
16	51	33	111	155	33	53	46	61	100	50	5.7	7.8
17	88	27	148	125	36	58	43	61	83	46	7.8	6.8
18	91	24	136	144	40	59	39	57	70	37	7.8	6.1
19	85	21	120	189	53	79	39	48	58	27	6.8	6.1
20	73	22	103	183	70	331	39	39	46	22	6.1	6.4
21	59	50	83	146	80	349	36	33	35	29	5.3	8.8
22	48	65	74	139	79	259	32	29	27	27	5.0	12
23	39	66	66	121	91	198	30	27	21	23	4.6	32
24	38	57	61	106	148	159	39	25	19	19	4.6	76
25	45	50	70	139	228	144	58	23	16	21	5.0	143
26	45	43	79	187	216	120	71	21	14	20	5.3	202
27	44	34	73	170	176	95	66	22	13	16	5.3	276
28	41	30	67	143	139	80	54	19	12	13	4.6	189
29	40	29	61	136	---	71	43	16	15	11	4.3	136
30	39	27	57	127	---	86	37	14	30	9.4	8.3	100
31	65	---	53	108	---	89	---	21	---	8.3	10	---
TOTAL	1276	981	4032	3949	2228	3132	2513	1322	1249	649.6	224.4	1303.8
MEAN	41.2	32.7	130	127	79.6	101	83.8	42.6	41.6	21.0	7.24	43.5
MAX	91	66	338	223	228	349	298	79	116	50	15	276
MIN	11	16	26	41	32	41	30	14	12	7.3	4.3	4.3
CFSM	1.19	.94	3.75	3.66	2.29	2.91	2.42	1.23	1.20	.61	.21	1.25
IN.	1.37	1.05	4.32	4.23	2.39	3.36	2.69	1.42	1.34	.70	.24	1.40

CAL YR 1974 TOTAL 24718.2 MEAN 67.7 MAX 973 MIN 1.4 CFSM 1.95 IN 26.50
WTR YR 1975 TOTAL 22859.8 MEAN 62.6 MAX 349 MIN 4.3 CFSM 1.80 IN 24.51

01192911 CONNECTICUT RIVER AT MIDDLETOWN, CONN.

LOCATION.--Lat 41°34'00", long 72°38'53", Middlesex County, at Penn Central Co. railroad bridge, at Middletown.

DRAINAGE AREA.--10,863 mi^2 (28,135 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH (FT)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.												
09...	1030	2.0	7.3	10.0	14.0	9.4	90	5.1	0	150	50	30
NOV.												
06...	1510	2.0	7.0	15.5	12.0	7.7	71	5.8	10	190	60	20
DEC.												
11...	1410	2.0	7.1	5.5	2.0	13.4	97	5.9	0	120	40	10
JAN.												
15...	1520	2.0	7.1	-1.5	1.0	13.4	95	6.5	0	150	40	10
FEB.												
18...	1405	2.0	7.0	4.5	1.0	12.9	91	6.5	0	170	60	10
MAR.												
12...	1350	2.0	7.0	4.0	2.0	13.0	94	6.0	10	170	40	20
APR.												
16...	1420	2.0	6.9	14.0	7.0	11.9	97	5.9	0	90	40	10
MAY												
14...	1415	2.0	7.0	28.0	16.0	8.4	85	5.1	0	110	30	10
JUNE												
18...	1355	2.0	7.0	27.0	20.0	7.2	78	5.3	20	140	20	10
JULY												
09...	1310	2.0	7.3	29.5	27.0	6.5	80	1.9	10	30	10	10
AUG.												
06...	1330	2.0	7.3	22.5	27.5	8.0	100	2.7	0	20	0	0
06...	1335	10	--	--	--	7.8	98	--	--	--	--	--
SEP.												
17...	1330	2.0	7.3	22.5	19.0	10.6	114	3.3	10	40	10	10

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
09...	13	2.4	35	0	29	12	8.9	.02	.46	.50	.64	.51
NOV.												
06...	13	2.2	34	0	28	15	12	.01	.62	.58	.75	.71
DEC.												
11...	9.0	1.8	23	0	19	11	9.1	.02	.40	.38	.49	.60
JAN.												
15...	11	2.0	25	0	21	11	14	.00	.46	.24	.31	.37
FEB.												
18...	13	2.1	31	0	25	12	17	.00	.66	.39	.50	.48
MAR.												
12...	12	2.0	30	0	25	13	13	.01	.57	.32	.41	.50
APR.												
16...	11	1.6	26	0	21	10	10	.01	.47	.17	.22	.23
MAY												
14...	12	1.5	23	0	19	9.5	6.9	.00	.45	.09	.12	.42
JUNE												
18...	10	1.5	28	0	23	9.3	8.0	.00	.35	.17	.22	.50
JULY												
09...	13	2.2	43	0	35	17	14	.01	.33	.33	.43	.57
AUG.												
06...	15	2.3	35	0	29	12	12	.02	.28	.03	.04	.82
06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
17...	14	1.3	34	0	28	13	11	.01	.48	.04	.05	.72

01192911 CONNECTICUT RIVER AT MIDDLETOWN, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DEPTH (FT)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
09...	2.0	.01	.97	4.3	.16	106	91	.12	42	14	125	8
NOV.												
06...	2.0	.13	1.3	5.9	.17	95	88	.12	42	14	136	20
DEC.												
11...	2.0	.22	1.0	4.4	.11	87	73	.10	30	11	95	20
JAN.												
15...	2.0	.13	.83	3.7	.08	94	91	.12	36	15	126	9
FEB.												
18...	2.0	.09	1.1	5.0	.12	94	93	.13	41	16	143	10
MAR.												
12...	2.0	.18	1.1	4.7	.11	89	78	.11	38	14	122	9
APR.												
16...	2.0	.06	.70	3.1	.09	83	75	.10	34	13	110	12
MAY												
14...	2.0	.33	.87	3.9	.09	86	63	.09	36	17	106	4
JUNE												
18...	2.0	.33	.85	3.8	.11	73	59	.08	31	8	92	37
JULY												
09...	2.0	.24	.90	4.0	.21	105	98	.13	42	6	155	3
AUG.												
06...	2.0	.79	1.1	4.9	.09	95	70	.10	47	18	137	23
06...	10	--	--	--	--	--	--	--	--	--	--	--
SEP.												
17...	2.0	.68	1.2	5.3	.11	85	83	.11	40	12	136	8

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
09...	2	2.8	36000	2900	85	6.6	0	.0	18	9.0	--
NOV.											
06...	3	5.4	22000	1800	450	8.6	0	.0	9.0	.5	0
DEC.											
11...	10	2.9	44000	6300	1600	6.4	0	.0	3.0	.0	--
JAN.											
15...	5	3.2	6800	1600	B900	3.8	0	.1	--	--	--
FEB.											
18...	2	5.0	9000	190	160	3.6	0	.1	.0	.0	--
MAR.											
12...	4	4.8	6600	1600	620	4.8	0	.1	--	--	--
APR.											
16...	3	5.2	7400	1100	96	5.0	1	.0	.0	.0	--
MAY											
14...	3	3.7	21000	360	65	4.0	0	.1	.0	.0	--
JUNE											
18...	4	4.5	19000	590	15	5.8	0	.0	.0	.0	--
JULY											
09...	4	3.4	4200	330	28	5.6	0	.1	19	.0	--
AUG.											
06...	6	2.8	5200	480	43	7.7	0	.1	34	.0	--
06...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
17...	3	2.7	9000	180	18	8.2	0	.0	32	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01192911 CONNECTICUT RIVER AT MIDDLETOWN, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 09...	.0	0	.5	.0	1.0	I.0	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 09...	0	0	.0	.0	.0	.0	.0	.0	.0	36	2	6

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 09...	100	5.2	14400	2	1	9	15	140000	24	3300	.0	64

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CONN.

LOCATION.--Lat 41°33'40", long 72°36'45", Middlesex County, on right bank 0.5 mi (0.8 km) upstream from Bodkin Rock, 2 mi (3 km) downstream from Middletown, and 30 mi (50 km) upstream from mouth.

DRAINAGE AREA.--10,882 mi^2 (28,184 km^2).

PERIOD OF RECORD.--October 1965 to current year. Jan. 1, 1947, to Sept. 30, 1948, twice daily readings on outside staff gage, and Sept. 8, 1948, to Oct. 14, 1965, infrequent discharge measurements at high stages and continuous graphic record of stage.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level. Auxiliary digital water-stage recorder at same datum on right bank 3.8 mi (6.1 km) downstream, 120 ft (37 m) downstream from pier of United Aircraft Corporation (formerly Connecticut Advanced Nuclear Engineering Laboratory, CANEL).

REMARKS.--Volume records fair. Flow affected by ocean tides below a stage of 18.00 ft (5.486 m) and by storage in major reservoirs having a combined capacity of about 117 billion cubic feet (3.31 billion cubic metres). Some diversion from Chicopee River basin and regulation of flow by power plants. Volumes of flow in alternate directions are tabulated for each cycle of ebb and flood tide. Base data are simultaneous readings of gage heights obtained by two standard U.S. Geological Survey digital recorders located at the ends of a fairly uniform channel reach. Net volume cannot be accurately computed by taking the difference between successive values of upstream and downstream volumes, because channel storage is different at the beginning and end of each tidal change, and because net volume is a comparatively small difference between two large numbers, and the errors in the large numbers would be greatly magnified in the difference.

Where 2 successive downstream or upstream volumes are shown on adjacent days, the portion of the volume occurring in each day should be combined to obtain total downstream or upstream volume for that ebb or flood tide.

Discharge in cfs at 15-minute intervals are available upon request.

NOTE.--Incomplete gage-height record many days during year. Where no volume is shown, gage-height record is incomplete; however, discharge or volume may be available for partial days.

JANUARY 1975 DISCHARGE AT STATION 1193000

DAY	VOLUME IN MILLIONS OF CUBIC FEET				
3	0	-293	447	-138	373
4	119	-153	540	-89	250
5	182	-154	456	-105	151
6	206	-190	434	-117	94
7	262	-248	641		
8	359	-142	470	-83	17
9	414	-224	700		
10	514	-125	650	-26	
11	-6	562	-94	711	
12	710	-48	744		
13	710	-27	874		
14	2142				
15	2061				
16	1874				
17	1675				
18	802	-33	442		
19	1368				
20	166	-53	529	-11	227
21	154	-128	397	-35	208
22	296	-34	1013		
23	419	-8	759		
24	399	-64	499	-47	22
25	441	-109	545	-60	0
26	582	-68	838		
27	775	-10	723		
28	736	0	779		
29	1679				
30	1644				

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CONN.--continued

FEBRUARY 1975 DISCHARGE AT STATION 1193000

VOLUME IN MILLIONS OF CUBIC FEET

DAY					
1	128	-24	1316		
2	176	-60	625	-28	345
3	224	-67	902		
4	239	-117	533	-26	159
5	294	-156	470	-117	55
6	338	-171	524	-80	12
7	434	-125	676		
8	542	-104	675		
9	526	-139	518	-33	
10	-19	358	-179	433	-60
11	-44	483	-150	460	-45
12	-71	444	-169	465	-33
13	-135	427	-131	416	-2
14	-92	361	-163	330	
15	0	-135	421	-147	406
16	20	-115	460	-106	356
17	34	-137	436	-129	330
18	64	-160	474	-92	289
19	117	-149	472	-70	188
20	203	-95	458	-96	140
21	321	-77	526	-45	80
22	372	-94	522	-71	44
23	449	-141	514	-115	2
24	487	-164	617	-74	
25	-2	786	-47	1391	
26	3693				

MARCH 1975 DISCHARGE AT STATION 1193000

VOLUME IN MILLIONS OF CUBIC FEET

DAY						
1	76	-131	1216	-10	930	
2	129	-187	997	-186	702	
3	172	-242	948	-77	493	
4	302	-92	817	-83	312	
5	328	-209	772	-147	241	
6	438	-229	748	-147	153	
7	576	-209	713	-323	26	
8	667	-208	822	-78	1	
9	628	-209	608	-248		
10	-1	660	-339	694	-263	
11	-41	645	-344	692	-237	
12	-96	689	-360	689	-232	
13	-161	830	-266	790	-53	
14	-177	724	-341	607	-190	
15	-336	1018	-22	726	-7	
16	-321	777	-240	698		
17	10	-284	654	-350	556	
18	11	-367	700	-297	593	
19	87	-307	725	-306	475	
20	104	-415	1911			
21	5520					
22	6184					
23	6185					
24	5073					
25	4610					
26	4738					
27	4759					
28	4230					
29	4	0	1641	-9	1377	-10
30	-261	1469	-33	1276		
31	8	-104	2996			

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CONN.--continued

APRIL 1975 DISCHARGE AT STATION 1193000

VOLUME IN MILLIONS OF CUBIC FEET

DAY			
2	1497	-72	986
3	2160		
4	4060		
5	5100		
6	4320		
7	3280		
8	2760		
9	2510		
10	2250		
11	2070		
12	1900		
13	1990		
14	1900		
15	1990		
16	1900		
17	2058		
18	2513		
19	3184		
20	4095		
21	5220		
22	6194		
23	6155		
24	5535		
25	5081		
26	5348		
27	5670		
28	5216		
29	4289		
30	3407		

MAY 1975 DISCHARGE AT STATION 1193000

VOLUME IN MILLIONS OF CUBIC FEET

DAY					
1	2862				
2	2810				
3	3104				
4	3420				
5	3661				
6	4017				
7	3948				
8	3552				
9	3166				
10	2892				
11	2429				
12	2089				
13	1883				
14	2209				
15	2616				
16	2475				
17	2140				
18	2001				
19	1600				
20	1216	-3	111		
21	1042	-33	45		
22	1198	-8	13		
23	1313	-5	0		
24	661	0	564		
25	1180	-9			
26	-34	536	-34	386	-13
27	-101	393	-91	372	
28	0	-67	456	-83	277
29	13	-65	415	-46	305
30	--				
31	78	-76	417	-100	232

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CONN.--continued

JUNE 1975 DISCHARGE AT STATION 1193000

VOLUME IN MILLIONS OF CUBIC FEET

DAY					
1	121	-89	390	-85	193
2	202	-53	324	-98	163
3	276	-35	314	-91	116
4	346	-40	356	-84	75
5	442	-10	466	-48	48
6	577	-14	595	-10	11
7	1618				
8	2043				
9	1909				
10	1552	-5			
11	-26	667	-26	500	-4
12	-72	588	-38	548	
13	4	-68	1413		
14	2373				
15	2578				
16	2203				
17	1328	-15	265		
18	1265	-45	157		
19	1243	-72	65		
20	1196	-125	3		
21	585	-60	391	-160	
22	-10	479	-108	357	-128
23	-47	406	-146	338	-97
24	-85	400	-163	339	-60
25	-110	434	-134	359	-20
26	-144	382	-182	324	-1
27	-177	347	-191	303	
28	2	-184	321	-195	281
29	25	-184	261	-230	237
30	54	-168	246	-238	175

JULY 1975 DISCHARGE AT STATION 1193000

VOLUME IN MILLIONS OF CUBIC FEET

DAY					
1	91	-157	231	-233	157
2	152	-165	197	-240	123
3	202	-157	203	-244	75
4	243	-183	214	-237	39
5	304	-201	202	-276	1
6	316	-209	230	-267	
7	-5	333	-244	249	-251
8	-40	381	-218	305	-199
9	-78	397	-242	289	-164
10	-140	398	-260	335	-101
11	-185	410	-264	362	-33
12	-236	402	-260	362	
13	0	-256	362	-243	363
14	30	-222	469	-147	549
15	2482				

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CONN.--continued

AUGUST 1975 DISCHARGE AT STATION 1193000

VOLUME IN MILLIONS OF CUBIC FEET

DAY					
15	266	-137	273	-209	112
16	304	-168	261	-261	29
17	327	-191	259	-265	
18	0	320	-214	248	-236
19	-10	342	-186	247	-177
20	-43	308	-356	256	-150
21	-71	317	-231	271	-117
22	-110	320	-213	266	-64
23	-144	284	-225	299	-28
24	-160	261	-262	256	-14
25	-193	248	-272	287	
26	0	-177	278	-219	304
27	10	-166	266	-228	229
28	32	-143	271	-191	270
29	--				
30	108	-156	314	-151	181
31	239	-85	458	-63	175

SEPTEMBER 1975 DISCHARGE AT STATION 1193000

VOLUME IN MILLIONS OF CUBIC FEET

DAY					
1	482	-5	451	-117	74
2	393	-125	323	-217	11
3	398	-172	262	-245	
4	-4	398	-215	339	-176
5	-30	400	-181	415	-110
6	-61	432	-210	401	-67
7	-116	381	-210	400	-21
8	-159	322	-279	356	0
9	-163	374	-229	359	
10	33	-110	304	-238	299
11	71	-122	272	-259	220
12	111	-180	278	-210	180
13	205	-106	269	-216	117
14	270	-132	223	-210	39
15	271	-170	220	-177	9
16	338	-138	307	-161	
17	0	362	-156	320	-166
18	-11	362	-181	329	-135
19	-32	367	-189	419	-69
20	-40	410	-141	420	-54
21	-61	398	-139	455	-17
22	-73	410	-152	407	-6
23	-103	388	-136	482	
24	4	-74	451	-59	612
25	1917				
26	2919				
27	5982				
28	7337				
29	6774				
30	5339				

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.

LOCATION.--Lat 41°32'30", long 72°33'13", Middlesex County, on pier of United Aircraft Corporation (formerly Connecticut Advanced Nuclear Engineering Laboratory, CANEL), 0.8 mi (1.3 km) south of Middle Haddam, and 6.1 mi (9.8 km) south of Middletown.

DRAINAGE AREA.--10,893 mi^2 (28,213 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1967 to current year.
Water temperatures: October 1967 to September 1970, September 1973 to current year.

EXTREMES.--Current year: Specific conductance: Maximum recorded, 483 micromhos Aug. 18; minimum recorded, 53 micromhos Aug. 4.
pH: Maximum recorded, 9.7 July 3; minimum recorded, 5.2 Sept. 12.
Dissolved oxygen: Maximum recorded, 14.2 mg/l Apr. 24; minimum recorded, 3.4 mg/l Sept. 30.
Water temperatures: Maximum, 30.0°C Aug. 3, 4; minimum, 1.0°C Dec. 7.

Period of record: Specific conductance: Maximum, 483 micromhos Aug. 18, 1975; minimum, 53 micromhos Aug. 4, 1975.
pH: Maximum, 9.7 July 3, 1975; minimum, 5.2 Apr. 14, 1974, Sept. 12, 1975.
Dissolved oxygen: Maximum, 14.9 mg/l July 14, 16, 1970; minimum 0.6 mg/l Aug. 11, 1970.
Water temperatures: Maximum, 33.0°C July 12, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Digital water-quality data collection system and monthly samples. Records of hourly-punched parameters 1967-70, 1973-75 available in the district office at Hartford, Conn. Available in this report are volumes of tidal interchange computed for a site 3.8 mi (6.1 km) upstream (see p.185).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.												
08...	1015	7.1	11.0	16.0	9.2	88	4.9	20	170	50	50	14
NOV.												
06...	1000	7.1	12.0	13.0	8.0	74	5.7	10	200	80	20	13
DEC.												
11...	1000	7.3	4.5	2.5	13.1	94	6.2	10	130	30	20	10
JAN.												
15...	1000	7.2	-4.5	1.5	13.7	98	6.6	10	150	40	10	11
FEB.												
12...	1015	7.0	-5.0	2.0	13.6	98	6.5	30	160	70	40	14
MAR.												
12...	1000	7.3	4.0	2.0	13.8	99	6.0	0	130	50	10	12
APR.												
16...	1000	7.0	10.5	7.0	12.2	100	5.8	0	140	40	10	11
MAY												
14...	1000	6.8	22.0	15.0	8.8	86	5.1	0	140	40	10	11
JUNE												
18...	1015	6.8	25.5	19.0	8.4	90	5.4	20	240	30	20	9.3
JULY												
09...	1015	7.1	27.0	26.5	6.4	78	2.0	20	80	20	10	13
AUG.												
06...	0930	7.2	24.5	28.5	7.7	98	3.0	10	20	10	0	16
SEP.												
17...	1010	7.2	19.5	18.0	9.5	100	2.8	10	60	0	10	16

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.											
08...	2.6	35	0	29	11	8.8	.01	.39	.48	.62	.64
NOV.											
06...	2.2	37	0	30	15	11	.01	.64	.47	.61	.54
DEC.											
11...	1.8	23	0	19	12	9.3	.02	.44	.36	.46	.61
JAN.											
15...	2.1	29	0	24	13	18	.00	.48	.27	.35	.52
FEB.											
12...	2.0	31	0	25	13	16	.02	.68	.35	.45	.60
MAR.											
12...	1.8	27	0	22	14	14	.02	.57	.28	.36	.51
APR.											
16...	1.5	25	0	21	10	9.7	.02	.48	.17	.22	.36
MAY											
14...	7.8	25	0	21	11	8.4	.02	.49	.19	.24	.45
JUNE											
18...	1.6	26	0	21	11	8.5	.01	.38	.17	.22	.52
JULY											
09...	2.1	40	0	33	16	15	.01	.33	.38	.49	.65
AUG.											
06...	2.4	37	0	30	13	13	.03	.29	.09	.12	.86
SEP.											
17...	1.5	34	0	28	13	11	.02	.50	.08	.10	.67

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.											
08...	.16	1.0	4.6	.16	94	92	.13	46	17	120	20
NOV.											
06...	.07	1.2	5.2	.19	94	92	.13	42	11	130	20
DEC.											
11...	.25	1.1	4.6	.15	92	69	.09	32	14	95	30
JAN.											
15...	.25	1.0	4.4	.10	100	109	.15	36	12	135	20
FEB.											
12...	.25	1.3	5.7	.13	91	36	.05	43	18	150	20
MAR.											
12...	.23	1.1	4.8	.12	84	85	.12	37	15	126	9
APR.											
16...	.19	.84	3.7	.11	72	68	.09	34	13	106	8
MAY											
14...	.26	.94	4.2	.12	94	63	.09	60	39	92	7
JUNE											
18...	.35	.90	4.0	.11	72	65	.09	30	8	88	22
JULY											
09...	.27	.98	4.3	.20	109	94	.13	41	8	130	15
AUG.											
06...	.77	1.2	5.1	.13	107	77	.10	50	19	120	6
SEP.											
17...	.59	1.2	5.2	.11	101	81	.11	46	18	122	4

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
08...	2	4.4	12000	600	88	6.9	3	.0	20	9.0	--
NOV.											
06...	2	4.7	3500	1000	3200	5.2	0	.0	7.5	.0	0
DEC.											
11...	8	1.8	12000	4000	3400	6.8	0	.1	4.0	1.7	--
JAN.											
15...	6	2.9	17000	4700	750	5.8	0	.1	--	--	--
FEB.											
12...	4	5.0	30000	2400	580	4.8	0	.1	.0	.0	--
MAR.											
12...	3	2.2	7600	880	180	4.0	0	.1	--	--	--
APR.											
16...	4	4.0	10000	1500	760	4.5	0	.1	.0	.0	--
MAY											
14...	4	6.3	38000	2200	500	3.4	0	.1	.0	.0	--
JUNE											
18...	7	6.6	42000	7200	130	5.1	0	.0	.0	.0	--
JULY											
09...	5	5.1	12000	850	13	6.0	0	.1	21	.0	--
AUG.											
06...	5	3.7	8210000	1200	94	14	0	.1	35	.0	--
SEP.											
17...	4	3.4	18000	1100	60	9.6	0	.0	31	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 08...	.0	0	.2	.0	.2	.5	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 08...	0	0	.0	.0	.0	.0	.0	.0	.0	45	0	2

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 08...	100	3.5	7200	2	1	8	9	150000	13	4200	.0	55

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	134	122	125	91	88	89	---	---	---
2	---	---	---	131	124	126	102	89	93	---	---	---
3	---	---	---	128	124	126	120	104	110	---	---	---
4	106	103	105	126	123	124	117	107	113	---	---	---
5	111	106	109	127	123	125	108	98	103	---	---	---
6	116	110	113	132	127	128	101	98	99	---	---	---
7	118	113	115	135	119	125	102	99	101	---	---	---
8	120	117	119	118	111	116	105	101	103	---	---	---
9	126	119	123	111	107	109	110	104	108	---	---	---
10	126	122	124	109	107	108	117	99	107	---	---	---
11	127	123	125	111	108	110	100	89	96	---	---	---
12	124	120	121	114	111	113	96	90	93	---	---	---
13	123	120	122	120	111	114	97	95	96	---	---	---
14	123	114	119	121	114	115	100	95	98	---	---	---
15	124	118	121	115	107	111	100	93	96	---	---	---
16	124	117	121	108	104	106	---	---	---	---	---	---
17	130	113	120	102	94	98	---	---	---	---	---	---
18	127	125	126	---	---	---	---	---	---	---	---	---
19	126	115	120	---	---	---	---	---	---	---	---	---
20	115	111	113	---	---	---	---	---	---	---	---	---
21	112	109	111	---	---	---	---	---	---	---	---	---
22	117	112	114	115	102	110	---	---	---	---	---	---
23	118	114	116	101	89	94	---	---	---	---	---	---
24	117	112	115	94	88	91	---	---	---	---	---	---
25	116	113	114	93	89	91	---	---	---	---	---	---
26	123	117	122	94	89	92	---	---	---	---	---	---
27	135	121	125	92	85	89	---	---	---	---	---	---
28	129	121	123	86	83	85	---	---	---	---	---	---
29	126	121	124	89	85	87	---	---	---	---	---	---
30	132	125	127	91	87	88	---	---	---	---	---	---
31	135	121	125	---	---	---	---	---	---	---	---	---
MONTH	135	103	119	135	83	108	---	---	---	---	---	---

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	102	95	99	85	78	82
2	---	---	---	---	---	---	101	95	98	90	80	84
3	---	---	---	---	---	---	109	98	102	86	82	84
4	---	---	---	---	---	---	111	88	99	85	82	84
5	---	---	---	---	---	---	88	81	84	89	83	85
6	---	---	---	---	---	---	86	82	84	87	79	83
7	---	---	---	---	---	---	91	83	87	114	75	88
8	---	---	---	---	---	---	93	87	90	93	77	82
9	---	---	---	---	---	---	96	89	92	85	77	81
10	---	---	---	---	---	---	99	89	94	87	74	81
11	---	---	---	---	---	---	102	95	99	84	76	79
12	---	---	---	---	---	---	111	103	106	---	---	---
13	---	---	---	---	---	---	111	106	108	---	---	---
14	---	---	---	---	---	---	110	105	108	---	---	---
15	---	---	---	---	---	---	111	105	108	94	81	87
16	---	---	---	---	---	---	108	105	107	87	79	83
17	---	---	---	---	---	---	110	103	107	91	84	88
18	---	---	---	---	---	---	112	107	109	95	88	91
19	---	---	---	---	---	---	112	102	106	93	87	90
20	---	---	---	---	---	---	101	96	98	97	90	93
21	---	---	---	---	---	---	95	82	89	101	96	99
22	---	---	---	---	---	---	82	76	79	106	102	104
23	---	---	---	---	---	---	76	72	74	105	99	102
24	---	---	---	---	---	---	79	75	77	105	98	100
25	---	---	---	---	---	---	86	79	82	104	100	102
26	---	---	---	---	---	---	83	77	79	106	102	103
27	---	---	---	---	---	---	77	71	75	108	105	106
28	---	---	---	---	---	---	79	68	74	112	107	109
29	---	---	---	---	---	---	84	77	81	118	111	114
30	---	---	---	---	---	---	87	77	83	120	116	118
31	---	---	---	---	---	---	---	---	---	122	119	120
MONTH	---	---	---	---	---	---	112	68	93	122	74	94

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	127	120	123	130	126	128	117	99	111	112	105	108
2	124	119	122	135	128	131	116	88	101	105	97	101
3	124	117	120	134	131	132	118	86	101	102	95	98
4	118	114	116	131	129	130	129	53	110	99	62	89
5	119	115	117	130	128	129	125	118	123	110	85	102
6	121	113	118	134	127	129	122	115	118	116	111	114
7	118	104	110	135	128	134	127	122	124	119	112	115
8	103	96	99	135	130	132	127	122	124	115	111	113
9	98	93	95	132	128	130	125	101	117	117	113	115
10	98	89	92	135	130	132	99	80	87	123	111	117
11	93	88	91	136	133	135	84	81	82	123	115	120
12	96	86	91	136	133	135	89	84	87	128	112	114
13	106	94	99	136	134	135	89	83	85	117	114	115
14	111	91	102	143	130	137	93	85	89	122	117	119
15	90	80	86	130	98	112	95	89	92	122	117	119
16	85	78	82	97	92	94	93	84	90	124	120	122
17	85	79	83	92	88	90	375	83	250	127	122	123
18	87	83	85	97	90	94	483	333	438	116	113	114
19	91	87	89	101	91	95	456	100	296	105	101	103
20	93	90	91	95	91	94	111	99	107	95	91	93
21	100	92	95	100	94	96	114	110	113	90	82	86
22	97	93	95	108	100	104	119	113	116	---	---	---
23	100	95	98	109	101	106	121	117	119	---	---	---
24	105	99	102	102	96	98	120	118	119	---	---	---
25	108	104	106	102	95	98	122	115	118	---	---	---
26	110	106	109	113	102	107	125	121	124	---	---	---
27	---	---	---	110	105	107	129	121	125	---	---	---
28	---	---	---	110	106	108	131	127	130	---	---	---
29	---	---	---	113	109	111	129	124	127	---	---	---
30	127	124	125	117	111	114	129	116	123	---	---	---
31	---	---	---	117	111	114	119	114	117	---	---	---
MONTH	127	78	102	143	88	116	483	53	131	---	---	---
YEAR	483	53	109									

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--continued

PH (UNITS) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.9	---	---	---	7.6	7.5	7.6	---	---	---
2	7.0	6.8	6.9	7.3	6.5	6.9	7.7	7.5	7.6	---	---	---
3	7.0	6.9	7.0	7.3	6.7	7.2	7.7	7.6	7.6	---	---	---
4	7.4	7.0	7.2	---	---	---	7.7	7.5	7.6	---	---	---
5	7.5	7.3	7.4	7.0	6.6	6.9	7.6	7.4	7.5	---	---	---
6	---	---	---	7.2	6.9	7.1	7.6	7.4	7.5	---	---	---
7	---	---	---	7.3	7.1	7.2	7.5	7.5	7.5	---	---	---
8	---	---	---	7.4	7.3	7.4	---	---	---	---	---	---
9	---	---	---	7.5	7.4	7.5	7.5	6.9	7.3	---	---	---
10	---	---	---	7.5	7.5	7.5	7.5	7.4	7.4	---	---	---
11	---	---	---	7.5	7.5	7.5	7.6	7.3	7.4	---	---	---
12	---	---	---	7.5	6.9	7.2	7.6	7.5	7.6	---	---	---
13	---	---	---	7.5	6.9	7.3	7.6	7.5	7.6	---	---	---
14	---	---	---	7.5	7.4	7.4	7.6	7.6	7.6	---	---	---
15	---	---	---	7.6	7.4	7.5	7.7	7.5	7.6	---	---	---
16	---	---	---	7.6	7.5	7.5	---	---	---	---	---	---
17	---	---	---	7.6	7.5	7.5	---	---	---	---	---	---
18	---	---	---	7.6	7.5	7.5	---	---	---	---	---	---
19	---	---	---	7.6	7.5	7.5	---	---	---	---	---	---
20	---	---	---	7.5	6.6	7.3	---	---	---	---	---	---
21	---	---	---	7.6	6.6	7.4	---	---	---	---	---	---
22	---	---	---	7.6	7.5	7.6	---	---	---	---	---	---
23	---	---	---	7.7	7.5	7.6	---	---	---	---	---	---
24	---	---	---	7.7	7.6	7.7	---	---	---	---	---	---
25	---	---	---	7.6	7.4	7.6	---	---	---	---	---	---
26	---	---	---	7.7	7.6	7.6	---	---	---	---	---	---
27	---	---	---	7.6	7.5	7.6	---	---	---	---	---	---
28	---	---	---	7.6	7.5	7.6	---	---	---	---	---	---
29	---	---	---	7.6	7.5	7.6	---	---	---	---	---	---
30	---	---	---	7.6	7.5	7.6	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	7.7	6.5	7.4	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.5	7.3	7.4	7.1	7.0	7.1
2	---	---	---	---	---	---	7.4	7.3	7.4	7.0	5.7	6.3
3	---	---	---	---	---	---	7.3	6.9	7.2	7.1	5.7	6.5
4	---	---	---	---	---	---	7.3	7.2	7.2	7.1	5.7	6.5
5	---	---	---	---	---	---	7.3	7.2	7.2	6.9	6.1	6.7
6	---	---	---	---	---	---	7.3	7.2	7.2	7.2	6.8	7.0
7	---	---	---	---	---	---	7.3	7.2	7.2	7.2	6.4	6.9
8	---	---	---	---	---	---	7.2	7.2	7.2	7.1	7.0	7.1
9	---	---	---	---	---	---	7.2	7.1	7.2	7.2	7.0	7.2
10	---	---	---	---	---	---	7.1	7.1	7.1	7.3	6.9	7.1
11	---	---	---	---	---	---	7.1	7.0	7.1	7.4	6.9	7.3
12	---	---	---	---	---	---	7.1	7.0	7.1	7.4	7.0	7.3
13	---	---	---	---	---	---	7.1	7.0	7.1	---	---	---
14	---	---	---	---	---	---	7.2	7.0	7.1	8.0	7.3	7.2
15	---	---	---	---	---	---	7.1	7.0	7.1	8.0	6.9	7.7
16	---	---	---	---	---	---	7.2	7.0	7.0	8.0	6.4	7.4
17	---	---	---	---	---	---	7.2	7.1	7.1	8.1	7.3	7.9
18	---	---	---	---	---	---	7.2	7.0	7.1	8.1	7.6	7.9
19	---	---	---	---	---	---	---	---	---	8.2	7.4	7.9
20	---	---	---	---	---	---	7.2	7.0	7.2	8.3	7.4	8.0
21	---	---	---	---	---	---	7.2	7.2	7.2	8.2	7.2	7.8
22	---	---	---	---	---	---	7.2	7.1	7.2	8.1	7.6	7.8
23	---	---	---	---	---	---	7.2	7.1	7.1	8.2	7.1	7.7
24	---	---	---	---	---	---	---	---	---	8.4	6.6	7.7
25	---	---	---	---	---	---	---	---	---	8.3	8.1	8.2
26	---	---	---	---	---	---	7.1	6.9	7.0	8.2	7.7	8.1
27	---	---	---	---	---	---	7.1	7.1	7.1	8.5	6.0	7.6
28	---	---	---	---	---	---	7.2	7.1	7.1	8.8	7.8	8.3
29	---	---	---	---	---	---	7.2	7.1	7.2	8.9	8.2	8.5
30	---	---	---	---	---	---	7.2	7.1	7.1	8.4	7.6	8.2
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	7.5	6.9	7.2	8.9	5.7	7.5

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--continued

PH (UNITS) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.0	8.3	8.6	9.3	7.5	8.3	7.9	7.3	7.6
2	---	---	---	8.8	8.4	8.6	9.1	7.1	8.2	8.1	7.4	7.7
3	7.9	7.4	7.7	9.7	8.4	8.8	8.8	7.4	8.0	8.8	7.4	8.0
4	7.9	7.3	7.6	9.2	8.3	8.6	7.6	6.8	7.2	8.6	7.6	8.0
5	7.8	7.3	7.6	8.7	8.2	8.4	7.6	6.5	7.1	9.1	7.8	8.4
6	7.2	6.5	6.9	8.3	8.0	8.1	7.3	7.0	7.2	8.4	6.7	7.6
7	7.6	6.9	7.4	8.1	7.9	8.0	7.0	6.8	6.9	8.6	7.4	7.8
8	7.9	7.5	7.7	8.1	7.8	8.0	6.8	6.0	6.4	8.0	7.2	7.6
9	8.0	7.4	7.8	7.7	6.6	7.2	7.0	5.6	6.4	7.7	7.1	7.4
10	8.0	7.6	7.8	7.9	6.7	7.3	6.9	6.4	6.7	7.6	7.3	7.4
11	7.9	7.7	7.8	8.0	6.7	7.5	7.0	6.1	6.6	7.5	7.1	7.3
12	---	---	---	7.6	6.3	7.1	7.3	6.5	6.9	6.9	5.2	6.0
13	---	---	---	---	---	---	7.3	6.7	7.0	7.6	6.6	7.1
14	---	---	---	---	---	---	7.2	6.3	6.8	7.6	7.3	7.5
15	---	---	---	---	---	---	7.3	6.2	6.8	7.6	7.2	7.4
16	---	---	---	---	---	---	6.6	6.3	6.4	7.7	7.3	7.5
17	---	---	---	---	---	---	6.5	6.2	6.3	8.7	7.1	7.2
18	---	---	---	---	---	---	6.7	6.0	6.4	8.4	7.4	7.8
19	---	---	---	---	---	---	7.2	6.6	6.8	---	---	---
20	8.1	7.8	8.0	---	---	---	7.5	6.8	7.1	---	---	---
21	8.2	7.9	8.1	---	---	---	8.3	7.0	7.5	---	---	---
22	8.3	8.0	8.1	7.8	7.1	7.5	8.4	6.8	7.5	---	---	---
23	8.3	8.0	8.1	7.9	7.1	7.5	8.4	7.3	7.7	7.9	6.9	7.4
24	---	---	---	7.8	6.9	7.4	7.6	6.2	6.8	7.0	6.1	6.6
25	---	---	---	6.9	5.3	6.1	6.3	6.1	6.2	6.7	5.3	6.2
26	---	---	---	8.0	6.6	7.3	---	---	---	---	---	---
27	---	---	---	8.4	7.4	7.7	---	---	---	---	---	---
28	---	---	---	8.9	7.4	8.1	7.1	6.8	7.0	---	---	---
29	---	---	---	9.0	7.6	8.4	7.4	7.0	7.2	8.5	6.2	7.7
30	8.5	8.2	8.4	9.3	8.1	8.7	7.2	6.4	6.9	8.7	7.6	8.4
31	---	---	---	9.1	8.0	8.5	8.1	7.2	7.6	---	---	---
MONTH	---	---	---	---	---	---	9.3	5.6	7.0	---	---	---
YEAR	9.7	5.2	7.4									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	6.6	6.9	8.9	7.4	8.3	---	---	---	---	---	---
2	7.7	7.1	7.3	8.4	7.2	7.7	---	---	---	---	---	---
3	7.9	7.3	7.5	7.8	7.2	7.5	---	---	---	---	---	---
4	8.4	7.7	8.0	7.8	7.5	7.7	---	---	---	---	---	---
5	8.8	8.3	8.5	8.2	7.6	7.9	---	---	---	---	---	---
6	8.9	8.6	8.7	9.5	7.9	8.0	---	---	---	---	---	---
7	9.4	8.5	8.9	9.2	8.4	8.7	---	---	---	---	---	---
8	9.5	8.7	9.0	9.8	9.1	9.4	---	---	---	---	---	---
9	9.3	8.7	9.0	10.1	9.8	9.9	---	---	---	---	---	---
10	9.5	8.8	9.2	10.3	9.8	10.1	13.3	12.9	13.1	---	---	---
11	10.2	8.9	9.5	10.1	9.8	10.0	13.1	12.7	12.9	---	---	---
12	10.2	9.3	9.7	10.1	9.7	9.8	13.5	13.1	13.4	---	---	---
13	10.1	9.4	9.8	9.9	9.2	9.5	13.5	13.0	13.3	---	---	---
14	10.5	9.8	10.1	9.8	9.1	9.4	13.4	13.1	13.2	---	---	---
15	10.3	9.7	10.0	10.4	9.4	9.9	13.4	12.8	13.1	---	---	---
16	10.3	9.8	10.1	10.4	9.7	10.0	---	---	---	---	---	---
17	10.4	9.4	9.9	10.9	10.2	10.5	---	---	---	---	---	---
18	10.2	8.2	9.1	10.8	10.0	10.2	---	---	---	---	---	---
19	9.5	8.6	9.0	10.5	9.7	10.1	---	---	---	---	---	---
20	9.8	9.4	9.6	10.7	9.9	10.2	---	---	---	---	---	---
21	10.1	9.7	9.9	10.3	9.5	9.9	---	---	---	---	---	---
22	10.0	9.7	9.8	---	---	---	---	---	---	---	---	---
23	10.3	9.4	9.9	---	---	---	---	---	---	---	---	---
24	10.0	9.4	9.7	---	---	---	---	---	---	---	---	---
25	9.3	8.9	9.1	---	---	---	---	---	---	---	---	---
26	9.5	8.5	9.0	---	---	---	---	---	---	---	---	---
27	9.2	8.6	8.9	---	---	---	---	---	---	---	---	---
28	9.0	8.2	8.6	---	---	---	---	---	---	---	---	---
29	9.0	8.4	8.7	---	---	---	---	---	---	---	---	---
30	9.1	8.6	8.9	---	---	---	---	---	---	---	---	---
31	9.0	8.2	8.7	---	---	---	---	---	---	---	---	---
MONTH	10.5	6.6	9.1	---	---	---	---	---	---	---	---	---

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--continued

DISSOLVED OXYGEN (DO) , IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	14.1	13.8	13.8	12.1	11.8	12.0
2	---	---	---	---	---	---	14.2	14.0	14.1	12.0	11.7	11.9
3	---	---	---	---	---	---	14.0	13.4	13.7	11.9	11.6	11.7
4	---	---	---	---	---	---	13.5	13.1	13.2	12.0	11.7	11.8
5	---	---	---	---	---	---	14.1	13.6	14.0	11.9	11.4	11.7
6	---	---	---	---	---	---	14.1	13.7	13.9	11.9	11.7	11.8
7	---	---	---	---	---	---	13.9	13.7	13.8	11.9	11.5	11.7
8	---	---	---	---	---	---	13.7	13.4	13.5	12.0	11.5	11.8
9	---	---	---	---	---	---	13.8	13.4	13.6	11.8	11.3	11.5
10	---	---	---	---	---	---	13.6	13.2	13.4	11.4	10.9	11.2
11	---	---	---	---	---	---	13.3	12.9	13.1	10.9	10.4	10.7
12	---	---	---	---	---	---	13.0	12.6	12.9	10.6	9.7	10.2
13	---	---	---	---	---	---	12.8	12.5	12.7	9.8	8.9	9.5
14	---	---	---	---	---	---	12.9	12.6	12.7	9.0	8.3	8.8
15	---	---	---	---	---	---	12.9	12.5	12.7	8.9	8.4	8.7
16	---	---	---	---	---	---	12.5	11.5	12.3	8.9	8.5	8.7
17	---	---	---	---	---	---	11.8	11.4	11.6	8.6	8.0	8.3
18	---	---	---	---	---	---	11.7	11.3	11.5	8.4	7.9	8.2
19	---	---	---	---	---	---	11.6	11.3	11.5	8.6	7.9	8.3
20	---	---	---	---	---	---	12.0	11.5	11.8	8.7	7.9	8.2
21	---	---	---	---	---	---	12.7	12.1	12.3	8.2	7.4	7.7
22	---	---	---	---	---	---	13.2	12.8	13.0	7.9	6.7	7.3
23	---	---	---	---	---	---	13.5	13.0	13.3	7.6	6.4	7.1
24	---	---	---	---	---	---	13.3	12.3	12.7	7.8	7.0	7.5
25	---	---	---	---	---	---	12.4	11.9	12.1	7.8	6.6	7.2
26	---	---	---	---	---	---	12.4	11.8	12.1	7.1	6.2	6.6
27	---	---	---	---	---	---	12.1	11.8	12.0	8.1	6.1	7.0
28	---	---	---	---	---	---	13.0	12.0	12.5	8.8	6.9	7.7
29	---	---	---	---	---	---	12.9	12.4	12.6	8.9	7.1	7.9
30	---	---	---	---	---	---	12.4	11.7	12.2	8.4	6.4	7.5
31	---	---	---	---	---	---	---	---	---	7.1	5.8	6.4
MONTH	---	---	---	---	---	---	14.2	11.3	12.8	12.1	5.8	9.2

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.4	5.6	6.0	10.0	8.1	9.1	14.0	9.1	11.4	---	---	---
2	7.3	5.3	6.4	9.6	8.5	9.3	12.2	10.5	11.4	---	---	---
3	7.5	6.3	6.8	10.5	8.2	9.2	10.5	8.9	9.9	---	---	---
4	7.3	6.6	6.9	10.1	8.1	9.2	8.8	7.2	8.0	---	---	---
5	7.1	6.2	6.6	8.2	6.1	7.3	8.9	6.8	7.8	---	---	---
6	7.8	6.9	7.3	---	---	---	8.5	7.5	8.2	---	---	---
7	7.6	7.1	7.4	---	---	---	7.8	7.2	7.4	---	---	---
8	8.1	7.2	7.7	---	---	---	8.0	6.8	7.4	---	---	---
9	8.6	8.0	8.3	7.2	6.4	6.8	8.0	6.9	7.5	---	---	---
10	8.8	8.4	8.6	6.9	5.9	6.3	8.0	7.2	7.7	---	---	---
11	10.6	8.4	9.3	7.2	5.1	6.4	8.8	7.7	8.2	---	---	---
12	10.2	9.6	9.9	6.9	5.7	6.2	9.8	8.2	8.9	---	---	---
13	10.0	9.2	9.5	7.0	5.9	6.6	9.5	8.5	9.1	---	---	---
14	9.6	9.1	9.4	7.9	6.8	7.2	10.7	8.5	9.7	---	---	---
15	9.9	9.4	9.6	7.8	6.1	6.6	11.3	9.5	10.4	---	---	---
16	9.6	9.0	9.3	7.8	7.0	7.4	10.0	9.1	9.5	---	---	---
17	9.3	8.7	9.0	8.0	7.4	7.7	9.9	8.7	9.3	---	---	---
18	8.9	8.4	8.6	9.2	7.9	8.6	9.3	8.4	8.8	11.2	10.1	10.6
19	8.8	7.9	8.3	9.8	8.1	8.9	9.5	8.3	8.7	10.4	9.0	9.7
20	9.5	7.9	8.8	9.7	8.4	9.0	---	---	---	8.9	8.0	8.5
21	9.4	8.3	9.0	10.8	8.6	9.1	---	---	---	8.1	7.0	7.5
22	10.8	8.8	9.6	10.2	8.4	9.3	---	---	---	8.4	7.0	7.5
23	11.6	9.0	10.2	10.1	8.1	9.1	---	---	---	7.8	7.1	7.5
24	11.5	9.5	10.4	9.8	8.2	9.0	---	---	---	7.7	6.6	7.1
25	12.3	10.1	11.0	9.4	8.4	8.9	9.5	8.4	8.9	7.2	6.7	6.9
26	12.9	10.1	11.4	10.4	8.3	9.0	8.6	7.7	8.1	7.5	7.3	7.4
27	---	---	---	11.1	8.5	9.7	8.0	7.5	7.7	7.3	6.7	7.0
28	---	---	---	11.3	9.3	10.4	8.6	7.4	8.0	6.9	6.2	6.5
29	---	---	---	12.1	9.7	10.9	10.2	8.5	9.5	6.4	3.4	5.9
30	9.1	8.4	8.8	12.0	10.2	10.8	10.1	8.9	9.6	6.3	5.4	5.6
31	---	---	---	11.4	10.0	10.6	---	---	---	---	---	---
MONTH	12.9	5.3	8.7	12.1	5.1	8.5	14.0	6.8	8.8	---	---	---
YEAR	14.2	3.4	9.5									

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--continued

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	17.5	18.0	12.5	11.5	12.0	5.5	1.5	2.0	---	---	---
2	17.5	16.5	17.0	13.0	12.5	12.5	4.5	2.0	2.5	---	---	---
3	16.0	15.0	16.0	13.0	12.0	12.5	4.0	2.5	2.5	---	---	---
4	15.5	14.5	15.0	14.0	12.0	13.0	3.0	2.0	2.5	---	---	---
5	15.0	14.0	14.5	13.5	12.5	13.0	4.0	1.5	2.0	---	---	---
6	15.0	14.0	14.5	13.5	12.5	13.0	3.5	1.5	2.0	---	---	---
7	16.5	15.0	15.5	12.5	11.5	12.0	2.0	1.0	1.5	---	---	---
8	16.5	14.5	15.0	12.0	10.5	11.0	3.0	1.5	2.0	---	---	---
9	16.0	14.5	15.5	10.5	10.0	10.0	4.5	3.0	3.5	---	---	---
10	16.0	14.5	15.0	10.0	9.0	9.5	4.0	3.0	3.0	---	---	---
11	16.0	14.0	14.5	11.0	9.5	9.5	2.5	2.5	2.5	---	---	---
12	15.5	14.0	14.5	10.5	9.5	9.5	2.5	2.0	2.0	---	---	---
13	15.5	14.0	14.5	10.5	9.5	10.0	2.0	2.0	2.0	---	---	---
14	15.0	14.0	14.5	11.0	9.5	9.5	2.5	2.0	2.5	---	---	---
15	15.5	14.0	14.5	9.5	8.5	9.0	3.0	2.0	2.5	---	---	---
16	15.0	14.0	14.5	9.0	8.0	8.5	---	---	---	---	---	---
17	15.0	13.5	14.0	8.0	7.0	7.5	---	---	---	---	---	---
18	14.0	13.0	13.5	7.5	7.0	7.5	---	---	---	---	---	---
19	13.0	12.0	12.5	8.0	6.5	7.0	---	---	---	---	---	---
20	12.0	10.5	11.5	8.0	6.5	7.0	---	---	---	---	---	---
21	12.0	10.0	10.5	8.0	6.5	7.5	---	---	---	---	---	---
22	11.0	9.5	10.0	6.5	5.5	6.0	---	---	---	---	---	---
23	10.5	9.5	10.0	5.5	5.0	5.0	---	---	---	---	---	---
24	11.5	9.5	10.0	5.0	4.5	5.0	---	---	---	---	---	---
25	11.5	9.5	10.0	5.5	4.5	5.0	---	---	---	---	---	---
26	10.5	9.5	10.0	4.5	3.5	4.0	---	---	---	---	---	---
27	11.5	9.5	9.5	4.5	2.5	3.5	---	---	---	---	---	---
28	10.5	9.0	9.5	4.5	2.5	3.0	---	---	---	---	---	---
29	10.5	9.5	10.0	3.5	2.5	3.0	---	---	---	---	---	---
30	10.5	9.5	10.0	3.0	2.5	2.5	---	---	---	---	---	---
31	12.0	10.0	11.0	---	---	---	---	---	---	---	---	---
MONTH	18.0	9.0	13.0	14.0	2.5	8.5	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	4.5	4.0	4.0	10.0	9.0	9.5
2	---	---	---	---	---	---	5.0	4.0	4.5	9.5	9.0	9.0
3	---	---	---	---	---	---	5.5	4.5	5.0	9.5	8.5	9.0
4	---	---	---	---	---	---	5.0	4.0	5.0	9.5	9.0	9.5
5	---	---	---	---	---	---	4.0	3.5	3.5	9.5	9.0	9.0
6	---	---	---	---	---	---	3.5	3.5	3.5	9.5	9.0	9.5
7	---	---	---	---	---	---	4.0	3.5	3.5	10.5	9.0	10.0
8	---	---	---	---	---	---	4.5	4.0	4.5	11.0	9.5	10.5
9	---	---	---	---	---	---	5.0	4.0	4.5	11.5	10.5	11.0
10	---	---	---	---	---	---	6.0	4.5	5.5	12.5	11.0	12.0
11	---	---	---	---	---	---	7.0	5.0	6.0	13.5	12.0	12.5
12	---	---	---	---	---	---	7.5	6.0	6.5	14.5	12.5	13.5
13	---	---	---	---	---	---	7.5	6.0	7.0	15.5	13.5	14.5
14	---	---	---	---	---	---	8.0	6.0	7.0	17.0	14.5	15.0
15	---	---	---	---	---	---	8.5	7.0	7.5	17.0	15.0	16.0
16	---	---	---	---	---	---	8.0	7.0	7.5	17.0	15.5	16.0
17	---	---	---	---	---	---	9.0	7.5	8.5	18.0	16.0	17.0
18	---	---	---	---	---	---	9.5	8.5	9.0	18.5	17.0	17.5
19	---	---	---	---	---	---	9.0	8.5	9.0	19.0	17.5	18.0
20	---	---	---	---	---	---	9.0	8.0	8.5	21.0	18.0	19.5
21	---	---	---	---	---	---	8.5	7.0	8.0	21.0	19.5	20.5
22	---	---	---	---	---	---	7.0	6.5	7.0	22.0	20.5	21.5
23	---	---	---	---	---	---	7.0	6.5	6.5	22.0	20.5	21.5
24	---	---	---	---	---	---	7.0	6.5	7.0	23.0	21.0	22.0
25	---	---	---	---	---	---	8.0	7.0	7.5	23.0	21.0	22.0
26	---	---	---	---	---	---	8.5	8.0	8.0	22.5	20.5	21.5
27	---	---	---	---	---	---	8.0	7.5	8.0	22.5	20.5	21.0
28	---	---	---	---	---	---	8.0	7.5	8.0	22.5	20.5	21.0
29	---	---	---	---	---	---	9.0	8.0	8.5	23.5	21.0	22.0
30	---	---	---	---	---	---	9.5	8.5	9.0	23.0	21.5	22.5
31	---	---	---	---	---	---	---	---	---	23.5	21.5	22.5
MONTH	---	---	---	---	---	---	9.5	3.5	6.5	23.5	8.5	16.0

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CONN.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	22.0	22.5	25.0	24.0	24.5	28.5	26.5	27.0	22.0	21.0	21.5
2	23.5	21.5	22.5	25.5	24.0	24.5	29.0	27.5	28.0	22.0	21.0	21.0
3	23.0	21.5	22.0	25.5	24.5	25.0	30.0	28.5	29.0	21.5	21.0	21.0
4	23.0	21.5	22.0	25.5	24.5	25.0	30.0	29.0	29.5	21.5	20.5	21.0
5	21.5	20.5	21.0	26.5	25.5	26.0	29.5	28.5	29.0	22.0	21.0	21.5
6	21.0	19.0	20.0	27.0	26.0	26.5	29.5	28.0	29.0	22.0	21.0	21.5
7	19.0	18.5	18.5	27.5	26.5	27.0	28.5	26.0	26.5	22.0	21.0	21.5
8	18.5	17.5	18.0	28.0	26.5	27.0	26.0	23.5	25.0	22.5	21.5	22.0
9	18.5	17.0	18.0	27.5	26.5	27.0	23.5	22.0	23.0	22.0	21.5	21.5
10	19.0	17.0	18.5	28.0	26.5	27.0	22.5	21.5	22.0	22.0	21.0	21.5
11	20.0	17.5	19.0	28.0	27.0	27.5	23.5	22.0	23.0	21.5	21.0	21.5
12	19.5	18.0	19.0	27.5	26.5	27.0	25.0	23.0	23.5	21.5	21.0	21.5
13	19.0	18.0	18.5	26.5	26.0	26.5	25.0	24.0	24.5	21.0	20.0	20.5
14	19.0	18.0	18.5	26.5	25.0	26.0	26.0	24.5	25.5	20.5	19.5	20.0
15	19.0	18.0	18.5	25.0	24.5	25.0	26.5	25.0	25.5	20.0	19.0	19.5
16	19.0	18.0	18.5	25.0	24.0	24.5	26.0	25.0	25.5	20.0	18.5	19.0
17	19.0	18.0	18.5	25.5	24.0	25.0	25.5	24.5	25.0	20.0	18.5	18.5
18	19.0	19.0	19.0	27.0	24.5	25.5	25.5	24.5	25.0	19.5	18.5	18.5
19	22.5	20.0	21.0	27.0	25.5	26.5	26.0	24.5	25.0	19.5	18.5	19.0
20	23.0	21.5	22.0	27.5	26.0	26.5	25.0	24.0	24.5	19.5	18.5	19.0
21	23.0	21.5	22.5	27.5	26.0	26.5	25.5	24.0	24.5	19.5	18.5	19.0
22	23.5	22.5	23.0	27.0	25.5	26.5	25.5	24.0	25.0	20.5	19.0	19.5
23	24.5	22.0	23.5	27.5	25.5	26.5	25.0	24.0	24.5	20.5	19.0	19.5
24	25.0	23.5	24.5	27.0	26.0	26.5	24.5	23.5	24.0	19.5	18.0	19.0
25	26.0	24.5	25.5	27.5	26.0	26.5	24.5	23.5	24.0	18.0	16.5	17.5
26	27.0	25.5	26.0	26.5	25.5	26.0	24.0	23.5	24.0	16.5	16.0	16.0
27	---	---	---	26.0	25.0	25.5	24.5	23.5	24.0	16.0	15.5	16.0
28	---	---	---	27.0	25.0	25.5	24.5	23.0	23.5	16.0	15.5	15.5
29	---	---	---	27.0	25.0	25.5	24.5	23.0	23.5	16.0	15.5	15.5
30	25.5	25.0	25.5	27.0	25.5	26.0	24.0	23.0	23.5	16.0	15.5	15.5
31	---	---	---	27.5	26.0	26.5	23.5	21.5	22.5	---	---	---
MONTH	27.0	17.0	21.0	28.0	24.0	26.0	30.0	21.5	25.0	22.5	15.5	19.5
YEAR	30.0	1.0	16.0									

01193500 SALMON RIVER NEAR EAST HAMPTON, CONN.

LOCATION.--Lat 41°33'11", long 72°26'57", Middlesex County, on right bank at Old Comstock Bridge, 150 ft (46 m) downstream from New London-Middlesex County line, 0.6 mi (1.0 km) downstream from Dickinson Creek, and 3.5 mi (5.6 km) southeast of East Hampton.

DRAINAGE AREA.--102 mi^2 (264 km^2).

PERIOD OF RECORD.--Discharge: July 1928 to current year.
Chemical analyses: September 1953, April 1954, October 1960 to September 1961, June 1968 to current year.
Water temperatures: October 1960 to September 1961, March to September 1975.

GAGE.--Water-stage recorder. Datum of gage is 66.51 ft (20.272 m) above mean sea level. Prior to June 23, 1974, at datum 2.99 ft (0.911 m) higher.

AVERAGE DISCHARGE.--47 years, 179 ft^3/s (5.069 m^3/s), 23.82 in/yr (605 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,980 ft^3/s (84.4 m^3/s) Dec. 9, gage height, 7.37 ft (2.246 m); minimum, 12 ft^3/s (0.34 m^3/s) Sept. 10, gage height, 2.24 ft (0.683 m).
Specific conductance: Maximum, 148 micromhos July 7; minimum, 56 micromhos Sept. 27.
Water temperatures: Maximum, 32.0°C Aug. 2; minimum, 0.5°C Mar. 28.

Period of record: Maximum discharge, 12,400 ft^3/s (351 m^3/s) Sept. 21, 1938, gage height, 10.96 ft (3.341 m), by computation of flow over dam half a mile (0.8 km) upstream; minimum, 1.0 ft^3/s (0.028 m^3/s) Oct. 31, 1935, gage height, -0.17 ft (-0.052 m); minimum daily, about 1 ft^3/s (0.028 m^3/s) Oct. 13, 1929.
Specific conductance: Maximum, 148 micromhos July 7, 1975; minimum, 56 micromhos Sept. 27, 1975; minimum daily, 49 micromhos Feb. 24, 1961.
Water temperatures: Maximum, 32.0°C Aug. 2, 1975; minimum, 0.5°C on many days during winter months.

PEAK DISCHARGE.--(BASE, 1,300 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-09	0200	7.37	2,980
03-20	1000	6.60	1,930
04-03	2030	6.00	1,320
09-27	1015	6.04	1,360

REMARKS.--Records good except those for period of no gage-height record June 16 to Aug. 28, which are fair. Slight regulation at low flow by ponds upstream. See REVISIONS summary paragraph in WSP 1901. Records of iron, specific conductance, and pH of daily samples for 1960-61 available in district office at Hartford, Conn.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	324	158	250	240	268	285	170	115	70	30	34
2	78	194	501	230	210	253	243	198	109	50	25	28
3	77	150	636	196	190	227	667	210	115	45	20	23
4	66	134	540	180	170	207	921	215	158	40	20	18
5	59	143	330	139	160	185	479	354	158	35	25	16
6	55	170	305	160	180	191	375	273	317	35	25	14
7	52	143	314	180	190	189	350	304	294	35	30	14
8	47	125	470	220	180	215	320	259	191	45	40	13
9	44	113	1930	400	170	185	290	212	160	40	35	13
10	42	106	500	600	180	172	270	191	133	35	30	12
11	40	101	350	400	180	176	250	178	106	45	25	14
12	39	97	280	450	170	196	240	166	162	100	22	26
13	39	167	240	500	170	259	220	291	651	200	20	77
14	38	160	220	700	160	219	210	401	317	170	18	52
15	37	133	210	450	160	198	200	279	203	150	16	38
16	259	117	300	389	150	210	190	301	170	130	15	32
17	420	106	600	304	150	237	180	291	150	100	16	29
18	224	101	400	354	160	232	180	219	140	70	17	27
19	146	98	300	894	190	232	170	183	120	60	16	26
20	116	104	250	646	240	1530	160	170	100	50	15	27
21	98	217	230	436	240	711	160	150	80	60	14	49
22	89	199	210	347	222	428	152	140	65	60	13	69
23	84	145	200	313	224	350	150	130	55	50	13	139
24	78	128	210	301	483	317	205	120	50	35	13	304
25	77	160	300	497	868	375	382	110	45	60	25	545
26	91	181	250	969	525	320	357	100	40	80	25	335
27	93	162	220	560	350	265	273	100	40	70	25	861
28	79	152	210	350	288	232	224	90	55	50	20	437
29	74	150	200	300	---	237	196	80	70	45	15	265
30	71	145	200	350	---	301	180	74	90	40	44	202
31	346	---	200	300	---	350	---	90	---	35	48	---
TOTAL	3137	4425	11264	12365	6800	9467	8479	6049	4459	2090	715	3739
MEAN	101	148	363	399	243	305	283	195	149	67.4	23.1	125
MAX	420	324	1930	969	868	1530	921	401	651	200	48	861
MIN	37	97	158	139	150	172	150	74	40	35	13	12
CFSM	.99	1.45	3.56	3.91	2.38	2.99	2.77	1.91	1.46	.66	.23	1.23
IN.	1.14	1.61	4.11	4.51	2.48	3.45	3.09	2.21	1.63	.76	.26	1.36

CAL YR 1974 TOTAL 74828 MEAN 205 MAX 1930 MIN 11 CFSM 2.01 IN 27.29
WTR YR 1975 TOTAL 72989 MEAN 200 MAX 1930 MIN 12 CFSM 1.96 IN 26.62

01193500 SALMON RIVER NEAR EAST HAMPTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
02...	1210	97	7.4	14.0	12.0	10.4	96	8.0	0	220	20	10
NOV.												
06...	1345	175	7.2	12.5	11.5	10.8	100	9.4	0	220	20	20
DEC.												
11...	1445	940	7.4	6.0	2.0	13.9	100	7.8	0	100	20	10
JAN.												
15...	1245	445	7.8	-2.5	1.0	14.4	101	7.6	0	260	30	20
FEB.												
12...	1300	140	6.9	-5.0	.5	16.0	109	8.9	0	80	40	0
14...	1050	160	7.2	-3.0	.5	14.2	98	--	--	--	--	--
MAR.												
12...	1330	196	7.6	3.5	3.0	13.8	102	7.0	0	70	30	20
APR.												
16...	1255	194	7.4	15.0	8.5	11.9	102	6.3	0	70	10	0
MAY												
14...	1330	410	7.4	26.5	18.0	9.7	102	5.7	0	170	20	10
JUNE												
18...	1330	197	7.6	27.0	20.0	9.4	102	8.6	10	360	20	30
JULY												
09...	1350	68	8.0	30.0	25.0	9.0	107	8.0	10	190	10	0
AUG.												
06...	1225	25	7.3	24.0	23.0	8.7	102	8.8	0	140	10	0
SEP.												
17...	1415	26	7.2	22.5	17.0	10.5	108	8.5	0	110	0	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
02...	6.5	1.8	12	0	10	11	11	.01	.28	.47	.61	.29
NOV.												
06...	6.0	1.8	12	0	10	12	10	.00	.15	.19	.24	.26
DEC.												
11...	5.0	1.2	9	0	7	14	8.7	.02	.22	.12	.15	.23
JAN.												
15...	6.0	1.5	9	0	7	11	9.2	.00	.29	.04	.05	.39
FEB.												
12...	7.6	1.5	8	0	7	11	12	.01	.47	.01	.01	.10
14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
12...	4.4	1.4	10	0	8	11	11	.01	.36	.03	.04	.21
APR.												
16...	5.2	1.2	8	0	7	9.8	9.7	.00	.25	.02	.03	.01
MAY												
14...	8.0	1.3	10	0	8	9.5	7.4	.00	.20	.05	.06	.45
JUNE												
18...	6.5	1.6	14	0	11	9.3	10	.01	.20	.01	.01	.28
JULY												
09...	5.5	1.4	16	0	13	9.4	13	.01	.11	.00	.00	.28
AUG.												
06...	7.4	1.7	18	0	15	7.3	12	.02	.19	.00	.00	.24
SEP.												
17...	8.5	1.0	27	0	22	12	12	.01	.11	.00	.00	.25

01193500 SALMON RIVER NEAR EAST HAMPTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
02...	.00	.57	2.5	.01	87	74	19.4	.10	24	14	88	30
NOV.												
06...	.07	.41	1.8	.02	68	61	28.8	.08	22	13	80	40
DEC.												
11...	.11	.45	2.0	.02	61	52	132	.07	17	10	68	30
JAN.												
15...	.35	.68	3.0	.02	60	65	78.1	.09	21	14	75	20
FEB.												
12...	.09	.57	2.5	.01	196	66	24.9	.09	25	19	91	20
14...	--	--	--	--	--	--	--	--	--	--	87	--
MAR.												
12...	.18	.57	2.5	.05	74	64	33.9	.09	17	9	80	7
APR.												
16...	.00	.26	1.2	.01	59	55	28.8	.07	18	11	68	9
MAY												
14...	.40	.65	2.9	.06	60	43	47.6	.06	25	17	64	25
JUNE												
18...	.27	.48	2.1	.03	64	54	28.7	.07	23	11	67	35
JULY												
09...	.28	.39	1.7	.01	76	67	12.3	.09	20	6	80	17
AUG.												
06...	.24	.43	1.9	.03	80	59	3.98	.08	25	11	94	8
SEP.												
17...	.25	.36	1.6	.01	82	80	5.62	.11	25	3	94	2

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
02...	1	.8	340	92	96	8.9	1	.0	--	--	--
NOV.											
06...	1	1.2	84	68	70	--	0	.0	2.7	.3	4
DEC.											
11...	2	.6	76	46	92	4.9	0	.0	1.7	1.7	--
JAN.											
15...	1	.2	92	6	12	4.3	0	.0	2.0	1.3	--
FEB.											
12...	1	1.6	--	--	--	8.2	2	.0	33	.7	--
14...	1	--	4	2	1	--	--	--	--	--	--
MAR.											
12...	1	.4	11	4	1	3.9	0	.0	--	--	--
APR.											
16...	1	.5	22	12	4	3.1	0	.0	.0	.0	--
MAY											
14...	7	.6	3500	2200	840	5.7	0	.0	.0	.0	--
JUNE											
18...	3	.6	880	110	40	6.2	0	.0	.0	.0	--
JULY											
09...	2	.3	4400	110	200	4.9	0	.0	.0	.0	--
AUG.											
06...	2	1.4	400	63	650	5.7	0	.0	.0	.0	--
SEP.											
17...	1	2.7	440	8	88	6.1	0	.0	.0	.0	--

01193500 SALMON RIVER NEAR EAST HAMPTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (1G/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)
OCT. 02...	.0	0	.0	.0	.0	.0	.0	.0	.0	.0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)
OCT. 02...	0	0	0	0	0	0	2	100	1.9	300

DATE	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 02...	1	0	2	3	290000	4	2000	.1	6

01193500 SALMON RIVER NEAR EAST HAMPTON, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	80	79	79	78	76	77
2	---	---	---	---	---	---	81	79	80	78	75	76
3	---	---	---	---	---	---	81	66	74	78	75	76
4	---	---	---	---	---	---	71	67	68	77	74	76
5	---	---	---	---	---	---	73	71	72	74	73	73
6	---	---	---	---	---	---	74	72	73	75	74	74
7	---	---	---	---	---	---	75	72	74	74	68	72
8	---	---	---	---	---	---	75	73	74	74	71	73
9	---	---	---	---	---	---	77	74	75	74	72	73
10	---	---	---	---	---	---	77	74	75	74	72	74
11	---	---	---	---	---	---	77	74	76	75	71	74
12	---	---	---	---	---	---	77	75	76	75	73	74
13	---	---	---	---	---	---	77	75	76	75	64	69
14	---	---	---	---	---	---	77	75	76	71	68	69
15	---	---	---	---	---	---	77	76	77	73	68	70
16	---	---	---	---	---	---	78	76	77	70	64	67
17	---	---	---	---	---	---	79	76	78	70	67	68
18	---	---	---	---	---	---	79	77	78	70	67	69
19	---	---	---	---	---	---	79	77	78	70	67	69
20	---	---	---	---	---	---	79	78	78	72	68	70
21	---	---	---	---	---	---	79	77	78	73	70	72
22	---	---	---	---	---	---	79	76	78	73	71	72
23	---	---	---	---	---	---	79	77	78	77	72	74
24	---	---	---	---	---	---	79	76	77	77	72	74
25	---	---	---	---	---	---	79	76	78	79	74	76
26	---	---	---	---	---	---	78	76	77	120	72	85
27	---	---	---	80	79	80	76	73	76	143	78	95
28	---	---	---	79	78	79	76	75	75	81	79	80
29	---	---	---	79	79	79	76	74	75	81	78	80
30	---	---	---	79	76	78	77	74	76	79	77	78
31	---	---	---	79	78	79	---	---	---	81	77	78
MONTH	---	---	---	---	---	---	81	66	76	143	64	74

01193500 SALMON RIVER NEAR EAST HAMPTON, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	80	75	77	79	75	77	78	74	76	99	96	98
2	---	---	---	83	74	78	83	76	79	98	91	96
3	---	---	---	87	77	81	92	82	87	99	95	97
4	---	---	---	99	79	85	98	90	92	100	94	98
5	---	---	---	108	85	95	99	92	95	101	97	99
6	---	---	---	137	110	120	100	97	99	100	97	99
7	---	---	---	148	78	125	98	91	94	100	97	99
8	---	---	---	91	73	79	97	91	94	101	98	100
9	---	---	---	100	82	88	97	90	94	102	99	101
10	---	---	---	88	80	83	95	92	94	101	96	99
11	---	---	---	88	84	86	98	92	94	101	98	100
12	---	---	---	88	78	83	100	96	98	101	82	95
13	---	---	---	82	80	81	102	97	100	93	81	89
14	---	---	---	80	75	77	103	101	102	94	92	93
15	---	---	---	---	---	---	104	99	101	95	91	93
16	---	---	---	---	---	---	103	99	101	96	93	94
17	---	---	---	72	69	70	101	98	99	97	94	95
18	69	67	68	76	71	73	102	100	101	98	95	96
19	72	68	70	79	74	76	101	98	99	98	95	96
20	74	71	73	79	67	76	101	99	100	100	97	98
21	74	71	72	72	63	69	100	97	99	100	85	94
22	74	69	71	73	72	72	101	95	98	100	91	96
23	76	70	73	74	71	72	99	96	98	95	84	88
24	78	71	74	78	70	75	101	95	98	87	79	84
25	79	71	75	77	70	73	99	97	98	79	74	77
26	80	71	75	74	69	71	100	94	98	80	71	78
27	85	71	77	71	69	70	102	99	100	73	56	64
28	88	73	79	72	69	71	99	95	97	67	61	65
29	89	74	79	73	71	72	106	102	104	68	65	67
30	82	76	78	75	71	73	104	86	96	76	67	70
31	---	---	---	76	73	75	102	95	98	---	---	---
MONTH	---	---	---	148	63	80	106	74	96	102	56	91
YEAR	148	56	83									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01193500 SALMON RIVER NEAR EAST HAMPTON, CONN.--continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	8.5	3.0	6.0	13.5	10.5	12.0
2	---	---	---	---	---	---	9.0	5.0	7.0	11.5	10.5	11.0
3	---	---	---	---	---	---	7.5	6.0	7.0	16.5	10.0	13.0
4	---	---	---	---	---	---	5.5	3.5	4.5	13.5	11.0	12.5
5	---	---	---	---	---	---	4.5	2.5	3.5	11.5	10.0	10.5
6	---	---	---	---	---	---	5.5	3.0	4.5	15.0	9.0	12.0
7	---	---	---	---	---	---	7.0	3.0	5.0	17.0	12.0	14.5
8	---	---	---	---	---	---	8.0	4.0	5.5	16.5	12.0	14.5
9	---	---	---	---	---	---	8.0	4.0	6.0	17.0	12.0	14.5
10	---	---	---	---	---	---	9.5	4.0	7.0	17.5	13.0	15.0
11	---	---	---	---	---	---	10.0	5.0	7.5	18.5	12.5	15.5
12	---	---	---	---	---	---	9.0	5.0	7.0	18.5	14.0	16.5
13	---	---	---	---	---	---	8.5	5.0	6.5	17.5	15.5	16.5
14	---	---	---	---	---	---	11.0	4.5	7.5	20.0	15.5	18.0
15	---	---	---	---	---	---	8.5	6.0	7.5	21.0	16.5	18.5
16	---	---	---	---	---	---	10.5	7.0	8.5	18.5	16.5	17.5
17	---	---	---	---	---	---	12.5	7.0	9.5	20.0	15.5	18.0
18	---	---	---	---	---	---	10.5	7.5	9.5	18.5	15.0	17.0
19	---	---	---	---	---	---	12.0	10.0	11.0	21.5	15.5	18.5
20	---	---	---	---	---	---	13.0	9.5	11.0	23.0	17.0	20.0
21	---	---	---	---	---	---	12.0	8.0	10.0	22.0	18.5	20.5
22	---	---	---	---	---	---	12.5	6.0	9.5	21.0	18.5	19.5
23	---	---	---	---	---	---	14.0	7.0	10.5	23.5	18.0	20.5
24	---	---	---	---	---	---	12.5	10.5	11.5	25.5	20.0	22.5
25	---	---	---	---	---	---	14.0	11.5	13.0	21.0	16.5	18.5
26	---	---	---	---	---	---	15.0	11.5	13.0	18.5	15.5	17.0
27	---	---	---	5.0	2.0	3.5	11.0	8.5	10.0	21.0	16.5	19.0
28	---	---	---	5.5	0.5	3.0	12.5	7.0	10.0	23.0	17.5	20.0
29	---	---	---	4.0	2.0	3.0	13.5	9.0	11.5	23.0	16.5	17.5
30	---	---	---	5.0	4.0	4.5	15.5	9.0	12.5	20.0	17.0	19.0
31	---	---	---	6.0	2.5	4.0	---	---	---	20.5	18.0	19.0
MONTH	---	---	---	---	---	---	15.5	2.5	8.5	25.5	9.0	16.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	19.0	20.0	22.5	15.5	19.0	29.5	22.5	25.5	20.0	14.0	17.0
2	---	---	---	23.5	15.5	20.0	32.0	23.5	27.0	22.0	16.0	18.5
3	---	---	---	26.0	19.0	22.5	---	---	---	20.5	16.5	18.0
4	---	---	---	27.5	19.0	22.5	---	---	---	22.5	14.0	17.5
5	---	---	---	26.0	18.5	22.0	---	---	---	22.5	15.0	18.0
6	---	---	---	28.5	20.0	24.0	---	---	---	20.0	16.5	18.0
7	---	---	---	27.5	20.5	23.5	---	---	---	21.5	16.0	18.5
8	---	---	---	25.0	20.5	22.5	---	---	---	23.0	16.0	19.0
9	---	---	---	28.5	21.0	23.0	---	---	---	22.0	16.0	19.5
10	---	---	---	25.0	21.0	23.0	---	---	---	20.0	12.5	15.5
11	---	---	---	25.0	21.5	23.0	---	---	---	17.0	12.5	15.0
12	---	---	---	22.0	20.5	21.0	---	---	---	20.0	16.0	18.0
13	---	---	---	22.5	20.5	21.5	---	---	---	18.5	15.0	16.5
14	---	---	---	23.0	21.0	22.5	---	---	---	16.5	13.0	14.0
15	---	---	---	---	---	---	---	---	---	15.5	10.5	13.0
16	---	---	---	---	---	---	---	---	---	15.0	11.5	13.5
17	---	---	---	26.5	24.0	25.5	---	---	---	19.0	13.5	15.5
18	21.5	20.0	20.5	28.5	23.5	25.5	---	---	---	18.0	15.0	16.5
19	24.5	19.0	21.5	28.0	23.0	25.5	---	---	---	17.5	16.0	16.5
20	24.5	19.5	21.5	27.5	24.0	25.5	---	---	---	19.0	16.5	18.0
21	22.5	16.5	19.5	27.0	22.5	24.5	---	---	---	20.0	18.0	19.0
22	23.5	16.5	19.5	27.5	22.5	24.5	---	---	---	19.5	16.0	17.5
23	25.5	17.5	21.5	27.5	21.5	24.5	---	---	---	17.0	16.0	16.5
24	27.0	20.0	23.5	28.0	22.0	25.0	---	---	---	16.0	15.5	16.0
25	25.5	21.0	23.0	25.0	22.0	23.5	---	---	---	15.5	15.0	15.0
26	24.0	19.5	21.0	25.0	18.5	22.0	---	---	---	17.0	15.0	16.0
27	21.0	17.5	19.5	24.5	17.5	21.0	---	---	---	19.0	17.5	18.0
28	21.5	19.0	20.0	25.0	18.5	21.5	---	---	---	17.5	16.0	17.0
29	24.0	19.0	21.0	26.5	19.5	22.5	24.0	17.0	20.0	16.5	14.0	15.5
30	24.0	18.0	20.5	26.5	19.0	22.5	20.5	18.5	20.0	16.5	14.0	15.5
31	---	---	---	27.5	20.0	23.5	21.0	17.0	18.5	---	---	---
MONTH	---	---	---	28.5	15.5	23.0	---	---	---	23.0	10.5	16.5
YEAR	32.0	0.5	16.5									

01193750 CONNECTICUT RIVER AT EAST HADDAM, CONN.

LOCATION.--Lat 41°27'05", long 72°27'55", Middlesex County, at bridge on State Highway 82, at East Haddam.

DRAINAGE AREA.--11,086 mi^2 (28,713 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1968, July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.												
08...	1345	7.3	14.0	15.0	8.6	85	5.1	10	180	30	20	12
NOV.												
06...	1215	6.9	16.0	12.0	8.2	80	5.8	10	170	70	20	14
DEC.												
11...	1300	7.3	7.0	3.0	12.8	95	6.2	0	140	40	10	10
JAN.												
15...	1125	7.7	-3.0	3.0	13.5	100	6.6	0	190	50	10	11
FEB.												
12...	1200	7.0	-5.0	1.0	13.7	97	6.4	10	100	50	30	13
14...	1030	6.9	-3.0	1.0	14.6	103	--	--	--	--	--	--
MAR.												
12...	1200	7.3	4.0	3.0	13.4	99	5.9	10	120	40	10	10
APR.												
16...	1145	7.2	14.0	7.5	12.0	99	5.9	0	130	40	10	10
MAY												
14...	1215	7.3	24.5	16.0	8.1	82	5.0	0	140	40	10	11
JUNE												
18...	1215	7.0	23.5	19.0	8.0	86	5.4	10	170	30	10	8.9
JULY												
09...	1245	7.1	28.5	28.0	7.2	91	2.1	10	20	10	0	12
AUG.												
06...	1110	7.1	25.5	28.5	6.8	86	2.9	0	10	0	0	16
SEP.												
17...	1315	7.1	21.5	20.0	8.4	91	2.0	10	30	0	10	14

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.											
08...	2.2	33	0	27	11	9.3	.02	.40	.37	.48	.32
NOV.											
06...	2.1	34	0	28	14	11	.01	.60	.41	.53	.66
DEC.											
11...	1.8	22	0	18	12	8.8	.02	.43	.38	.49	.56
JAN.											
15...	2.1	30	0	25	13	17	.00	.49	.27	.35	.58
FEB.											
12...	1.8	28	0	23	12	14	.02	.60	.27	.35	.54
14...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
12...	2.2	28	0	23	13	12	.02	.55	.28	.36	.51
APR.											
16...	3.0	5	11	22	10	9.8	.02	.54	.19	.24	.43
MAY											
14...	3.2	27	0	22	11	8.5	.01	.45	.12	.15	.39
JUNE											
18...	1.5	29	0	24	10	7.7	.01	.35	.15	.19	.42
JULY											
09...	2.1	39	0	32	17	15	.01	.28	.36	.46	.88
AUG.											
06...	2.2	34	0	28	11	12	.02	.19	.02	.03	.77
SEP.											
17...	1.5	33	0	27	14	11	.01	.48	.13	.17	.69

01193750 CONNECTICUT RIVER AT EAST HADDAM, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.											
08...	.00	.72	3.2	.08	88	88	.12	39	12	115	20
NOV.											
06...	.25	1.3	5.6	.14	92	96	.13	44	16	124	10
DEC.											
11...	.18	.99	4.4	.16	94	68	.09	32	14	95	30
JAN.											
15...	.31	1.1	4.7	.09	100	95	.13	36	12	128	20
FEB.											
12...	.27	1.1	5.0	.10	79	88	.12	40	17	126	20
14...	--	--	--	--	--	--	--	--	--	132	--
MAR.											
12...	.23	1.1	4.7	.11	95	85	.12	34	11	120	10
APR.											
16...	.24	.97	4.3	.12	80	71	.10	37	15	100	6
MAY											
14...	.27	.84	3.7	.10	77	56	.08	41	19	90	6
JUNE											
18...	.27	.77	3.4	.10	76	63	.09	28	5	82	18
JULY											
09...	.52	1.2	5.1	.17	107	90	.12	39	7	126	12
AUG.											
06...	.75	.96	4.3	.11	109	68	.09	49	21	130	9
SEP.											
17...	.56	1.2	5.2	.10	113	76	.10	41	14	122	3

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
08...	2	2.6	1600	120	8	7.5	0	.0	26	12	--
NOV.											
06...	2	6.8	440	160	620	7.3	0	.1	7.3	.0	2
DEC.											
11...	8	1.8	40000	3700	2500	7.0	0	.1	4.0	1.3	--
JAN.											
15...	5	1.0	28000	5200	700	4.3	0	.1	2.3	.7	--
FEB.											
12...	4	4.5	--	--	--	5.0	0	.1	.0	.0	--
14...	4	--	3200	980	500	--	--	--	--	--	--
MAR.											
12...	3	2.2	3400	500	120	6.0	0	.0	--	--	--
APR.											
16...	4	2.8	2200	920	800	6.0	1	.0	--	--	--
MAY											
14...	2	2.2	10000	520	100	2.5	0	.0	.0	.0	--
JUNE											
18...	4	4.6	15000	580	100	5.8	0	.0	1.0	.0	--
JULY											
09...	4	5.0	14000	750	33	6.0	0	.1	12	.0	--
AUG.											
06...	4	4.3	250	845	14	9.2	0	.1	20	.0	--
SEP.											
17...	4	4.2	2500	80	9	6.4	0	.2	--	--	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01193750 CONNECTICUT RIVER AT EAST HADDAM, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 08...	.0	4	.4	.0	.3	.1	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 08...	0	0	.0	.0	.0	.0	.0	.0	.0	0	1	4

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 08...	100	2.0	2100	2	1	8	10	180000	12	3700	.0	63

01193800 HEMLOCK VALLEY BROOK AT HADLYME, CONN.

LOCATION.--41°25'42", long 72°25'23", Middlesex County, on right bank just upstream from culvert on Bone Mill Road at Hadlyme, 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--2.62 mi^2 (6.79 km^2).

PERIOD OF RECORD.--July 1960 to current year.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 37.85 ft (11.537 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 5.21 ft^3/s (0.148 m^3/s), 26.99 in/yr (686 mm/yr).

EXTREMES.--Current year: Maximum discharge, 53 ft^3/s (1.50 m^3/s) Dec. 9, gage height, 1.47 ft (0.448 m); minimum, 0.11 ft^3/s (0.003 m^3/s) Aug. 9, gage height, 0.44 ft (0.134 m).

Period of record.--Maximum discharge, 270 ft^3/s (7.65 m^3/s) Mar. 6, 1963, gage height, 2.8 ft (0.85 m); minimum, 0.04 ft^3/s (0.001 m^3/s) July 13, 14, 17, 1974, gage height, 0.44 ft (0.134 m).

PEAK DISCHARGE.--(BASE, 45 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-02	1600	1.43	49
12-09	0230	1.47	53
03-20	0930	1.42	49
04-03	1700	1.42	49

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	3.2	1.5	6.9	6.3	7.6	7.3	4.5	3.2	2.9	.37	.31
2	1.5	1.7	25	6.3	5.6	6.9	6.6	5.9	2.4	2.0	.34	.29
3	1.1	1.5	15	4.8	5.6	6.3	27	5.4	2.1	1.6	.32	.32
4	1.0	1.5	6.6	4.8	5.4	5.6	23	7.3	2.8	1.3	.33	.32
5	1.0	1.7	4.8	4.2	5.4	5.4	12	10	2.1	.98	.37	.30
6	1.0	3.0	4.2	3.7	5.6	5.4	9.6	6.6	6.9	.90	.33	.31
7	1.0	2.1	3.9	8.0	5.6	5.6	8.6	13	3.4	.86	.65	.32
8	1.1	1.9	12	5.9	5.1	6.9	8.0	8.0	2.6	.79	.79	.30
9	1.0	1.7	32	20	4.5	4.8	7.3	6.3	2.1	.80	.74	.31
10	1.0	1.5	11	12	3.2	4.8	6.9	5.9	1.9	.81	.45	.24
11	1.0	1.3	8.0	10	3.4	5.6	6.6	5.4	1.5	.72	.37	.32
12	1.0	1.3	6.6	11	3.4	6.6	6.3	5.1	9.6	3.9	.32	.83
13	1.0	4.5	5.9	16	3.4	8.3	5.9	12	34	3.8	.29	1.0
14	1.0	3.4	5.4	16	3.4	6.3	5.6	12	11	3.1	.25	.46
15	1.1	2.4	5.4	9.3	3.4	6.9	5.4	7.3	7.3	2.7	.24	.39
16	5.6	1.9	7.6	7.6	3.7	6.9	5.4	14	5.6	2.0	.31	.33
17	18	1.7	21	6.6	4.2	7.6	4.8	8.6	6.3	1.6	.38	.36
18	4.8	1.5	9.3	10	4.5	6.6	4.8	6.6	5.1	1.2	.34	.32
19	3.0	1.5	7.3	17	6.9	8.3	4.8	5.6	4.5	.97	.24	.35
20	2.6	1.9	6.6	12	7.3	41	4.5	4.8	4.2	.88	.21	.48
21	2.1	8.3	5.9	8.3	6.6	19	4.2	4.2	2.8	1.9	.18	1.2
22	2.1	3.9	5.6	8.3	6.9	12	3.9	3.9	2.4	1.0	.23	.91
23	1.9	2.6	5.1	7.6	9.6	10	3.7	3.7	2.1	.70	.20	5.3
24	1.9	2.4	5.1	7.3	19	9.6	6.6	3.2	2.1	.57	.28	8.4
25	1.7	2.4	9.0	12	24	11	8.3	3.0	2.8	1.8	.33	15
26	2.1	2.1	7.6	17	12	8.6	10	2.8	1.9	1.3	.32	5.9
27	2.1	1.7	5.6	9.3	9.0	7.3	6.9	2.6	1.7	.76	.28	19
28	1.9	1.7	5.4	8.0	7.6	6.9	5.6	2.4	1.6	.57	.21	5.6
29	1.9	1.7	5.1	9.6	---	6.9	5.1	1.9	7.7	.48	.18	3.1
30	1.9	1.5	5.1	8.6	---	11	4.5	1.7	7.2	.44	1.0	2.3
31	2.6	---	4.8	6.9	---	9.0	---	1.9	---	.40	.49	---
TOTAL	72.9	69.5	263.4	295.0	190.6	274.7	229.2	185.6	150.9	43.73	11.34	74.57
MEAN	2.35	2.32	8.50	9.52	6.81	8.86	7.64	5.99	5.03	1.41	.37	2.49
MAX	18	8.3	32	20	24	41	27	14	34	3.9	1.0	19
MIN	1.0	1.3	1.5	3.7	3.2	4.8	3.7	1.7	1.5	.40	.18	.24
CFSM	.90	.89	3.24	3.63	2.60	3.38	2.92	2.29	1.92	.54	.14	.95
IN.	1.04	.99	3.74	4.19	2.71	3.90	3.25	2.64	2.14	.62	.16	1.06

CAL YR 1974 TOTAL 1864.35 MEAN 5.11 MAX 49 MIN .24 CFSM 1.95 IN 26.47
WTR YR 1975 TOTAL 1861.44 MEAN 5.10 MAX 41 MIN .18 CFSM 1.95 IN 26.43

01194500 EAST BRANCH EIGHTMILE RIVER NEAR NORTH LYME, CONN.

LOCATION.--Lat 41°25'40", long 72°20'05", New London County, on left bank at bridge on State Highway 156, 0.4 mi (0.6 km) upstream from mouth, 1.1 mi (1.8 km) north of North Lyme, 1.2 mi (1.9 km) south of North Plain, and 5.5 mi (8.8 km) upstream from mouth of Eightmile River.

DRAINAGE AREA.--22.3 mi^2 (57.8 km^2).

PERIOD OF RECORD.--September 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 54.21 ft (16.523 m) above mean sea level. Prior to Oct. 1, 1964, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--38 years, 44.7 ft^3/s (1.266 m^3/s), 27.22 in/yr (691 mm/yr).

EXTREMES.--Current year: Maximum discharge, 432 ft^3/s (12.2 m^3/s) Apr. 4, gage height, 3.94 ft (1.201 m); minimum, 1.7 ft^3/s (0.048 m^3/s) Aug. 21-24, gage height, 0.98 ft (0.299 m).

Period of record: Maximum discharge, 2,950 ft^3/s (83.5 m^3/s) Sept. 21, 1938, gage height, 7.00 ft (2.134 m), computed on basis of study of flow at contracted control section; no flow Sept. 3, 1938, result of regulation; minimum daily, about 1.03 ft^3/s (0.001 m^3/s) Oct. 2, 1941.

PEAK DISCHARGE.--(BASE, 300 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
03-20	1530	3.67	354
04-04	0230	3.94	432
06-13	1830	3.66	348
09-27	1630	3.68	357

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	19	18	55	51	65	61	36	30	18	4.6	6.4
2	11	17	114	55	47	59	51	39	31	14	4.1	4.0
3	9.0	16	196	43	42	52	144	44	25	13	3.7	2.8
4	7.5	15	90	41	39	45	326	43	30	12	3.3	2.3
5	7.5	16	56	38	37	42	156	76	40	10	5.4	2.0
6	7.5	22	43	34	42	39	110	64	87	9.5	4.9	1.8
7	7.5	20	39	43	43	39	90	76	88	9.0	5.5	1.8
8	7.5	17	65	52	40	45	79	72	54	12	7.8	1.7
9	7.5	15	222	101	39	40	71	53	42	11	7.4	1.7
10	7.5	15	124	146	43	34	64	45	36	9.3	5.6	1.7
11	7.5	14	77	93	41	35	60	43	32	8.0	4.3	1.7
12	7.5	14	61	102	40	39	55	39	46	31	3.7	2.6
13	7.5	23	54	110	39	54	52	74	275	52	3.0	11
14	7.5	28	49	164	38	49	49	89	223	44	2.7	8.9
15	8.5	22	46	103	37	44	47	60	108	38	2.2	4.9
16	45	18	60	75	35	47	45	83	68	32	2.1	3.3
17	100	16	140	61	36	49	43	105	57	23	2.3	2.7
18	45	15	100	63	39	46	41	68	52	19	2.4	2.5
19	25	15	70	133	47	44	41	53	43	15	2.2	2.4
20	22	19	60	115	62	256	38	47	37	13	1.9	2.5
21	19	52	55	81	59	188	32	42	29	17	1.7	5.2
22	17	51	50	69	54	108	30	37	23	16	1.8	14
23	16	34	45	63	65	85	30	34	21	12	1.7	24
24	15	27	45	57	130	74	37	31	19	8.9	1.7	65
25	15	25	70	73	245	81	64	27	18	16	1.9	115
26	16	25	60	147	158	72	75	24	16	22	2.8	92
27	16	22	50	101	97	59	62	23	14	14	3.7	249
28	15	21	50	71	74	51	45	23	17	10	2.6	176
29	14	20	45	69	---	49	40	22	20	8.4	2.0	74
30	14	19	45	78	---	63	37	20	24	6.6	6.3	44
31	15	---	45	62	---	81	---	22	---	5.4	11	---
TOTAL	533.0	652	2244	2498	1719	2034	2075	1514	1605	529.1	116.3	926.9
MEAN	17.2	21.7	72.4	80.6	61.4	65.6	69.2	48.8	53.5	17.1	3.75	30.9
MAX	100	52	222	164	245	256	326	105	275	52	11	249
MIN	7.5	14	18	34	35	34	30	20	14	5.4	1.7	1.7
CFSM	.77	.97	3.25	3.61	2.75	2.94	3.10	2.19	2.40	.77	.17	1.39
IN.	.89	1.09	3.74	4.17	2.87	3.39	3.46	2.53	2.68	.88	.19	1.55

CAL YR 1974 TOTAL 15890.9 MEAN 43.5 MAX 514 MIN 1.4 CFSM 1.95 IN 26.51
WTR YR 1975 TOTAL 16446.3 MEAN 45.1 MAX 326 MIN 1.7 CFSM 2.02 IN 27.44

RESERVOIRS IN THE CONNECTICUT RIVER BASIN

01185000. OTIS RESERVOIR.--Lat 42°09'35", long 73°03'33", Berkshire County, Mass., on Fall River in West Branch Farmington River basin, 1 mi (2 km) northeast of Cold Spring. Drainage area, 15.9 mi^2 (41.2 km^2). Usable capacity, 780,000,000 ft^3 (22,000,000 m^3). Records available, April 1913 to current year. Completed in 1865 for storage of water for power. Records furnished by the Massachusetts Department of Natural Resources, Division of Forests and Parks.

01185850. COLEBROOK RIVER LAKE.--Lat 42°00'22", long 73°02'12", Hartford County, Conn., on West Branch Farmington River, 1.6 mi (2.6 km) upstream from West Branch Reservoir, and 3.1 mi (5.0 km) north of Riverton. Drainage area, 119 mi^2 (308 km^2). Usable capacity, 4,213,000,000 ft^3 (11,900,000 m^3). Records available, June 1969 to current year. Completed in June 1969 for multi-purpose use. Records furnished by Corps of Engineers.

01185900. WEST BRANCH RESERVOIR.--Lat 41°59'22", long 73°01'15", Hartford County, Conn., on West Branch Farmington River, 2 mi (3 km) west of Hartland, and 2 mi (3 km) north of Riverton. Drainage area, 127 mi^2 (329 km^2). Usable capacity, 374,000,000 ft^3 (10,600,000 m^3). Records available, March 1960 to current year. Completed in April 1960 for future storage of water for municipal supply of Hartford. Presently used to compensate for water diverted from the river. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.

01186090. MAD RIVER DETENTION RESERVOIR.--Lat 41°55'53", long 73°05'33", Litchfield County, Conn., on Mad River in West Branch Farmington River basin, 1.4 mi (2.3 km) northwest of Winsted. Drainage area, 18.3 mi^2 (47.4 km^2). Usable capacity, 423,000,000 ft^3 (12,000,000 m^3), including 8,000,000 ft^3 (200,000 m^3) storage in recreation pool. Records available, September 1964 to current year. Completed in 1962 by Corps of Engineers for storage of water for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.

01186150. SUCKER BROOK RESERVOIR.--Lat 41°54'09", long 73°06'00", Litchfield County, Conn., at mouth of Sucker Brook, a tributary of Highland Lake in West Branch Farmington River basin, 2 mi (3 km) southwest of Winsted. Drainage area, 3.50 mi^2 (9.06 km^2). Usable capacity, 64,500,000 ft^3 (1,830,000 m^3). Records available, February 1971 to current year. Completed in 1970 by Corps of Engineers for storage of water for flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.

01186160. HIGHLAND LAKE.--Lat 41°55'22", long 73°04'58", Litchfield County, Conn., at head of the Lake Stream, a tributary of Mad River in West Branch Farmington River basin, at Winsted, and 0.4 mi (0.6 km) upstream from Mad River. Drainage area, 7.05 mi^2 (18.26 km^2). Usable capacity, 144,400,000 ft^3 (4,089,000 m^3), revised, based on Lake survey by Conn. Board of Fisheries and Game. Records available, September 1936 to current year. Dam raised to its present crest elevation in 1875. Lake used for storage of water for power, recreation, and flood control. Capacity and contents figures computed by U.S. Geological Survey.

01187500. BARKHAMSTED RESERVOIR.--Lat 41°54'38", long 72°57'15", Litchfield County, Conn., on East Branch Farmington River, 1.2 mi (1.9 km) south of Barkhamsted. Drainage area, 52.5 mi^2 (136.0 km^2). Usable capacity, 4,050,000,000 ft^3 (115,000,000 m^3). Records available, October 1950 to current year. For period March 1940 to September 1950, combined month-end contents for Barkhamsted, East Branch, and Nepaug Reservoirs are given in WSP 1301. Completed in 1939 for storage of water for municipal supply of Hartford. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.

01187600. EAST BRANCH RESERVOIR.--Lat 41°52'49", long 72°57'30", Litchfield County, Conn., on East Branch Farmington River in Farmington River basin, 1 mi (2 km) east of New Hartford. Drainage area, including Barkhamsted Reservoir, 61.2 mi^2 (158.5 km^2). Usable capacity, 393,000,000 ft^3 (11,100,000 m^3). Records available, October 1950 to current year. For period August 1928 to September 1950, combined month-end contents for Barkhamsted, East Branch, and Nepaug Reservoirs are given in WSP 1301. Completed in 1919 for storage of water to compensate for water diverted from the river for municipal supply of Hartford. Since the construction of West Branch Reservoir in April 1960, it has been used only for recreation. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.

01187900. NEPAUG RESERVOIR.--Lat 41°49'37", long 72°56'34", Litchfield County, Conn., on Nepaug River in Farmington River basin, 1.5 mi (2.4 km) northwest of Collinsville. Drainage area, 31.6 mi^2 (81.8 km^2). Usable capacity, 1,270,000,000 ft^3 (36,000,000 m^3). Records available, August 1928 to current year. Completed in 1918 for storage of water for municipal supply of Hartford. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.

01188500. WHIGVILLE RESERVOIR.--Lat 41°44'08", long 72°57'02", Hartford County, Conn., on Whigville Brook in Pequabuck River basin, at Whigville. Drainage area, 4.10 mi^2 (10.62 km^2). Usable capacity, 5,050,000 ft^3 (143,000 m^3). Records available, July 1928 to current year. Completed in 1908 for storage of water for municipal supply of New Britain. Records furnished by Board of Water Commissioners, New Britain, Conn.

RESERVOIRS IN THE CONNECTICUT RIVER BASIN--continued

Month-end usable contents, millions of cubic feet, water year October 1974 to September 1975

Date	Otis Reservoir	Colebrook River Lake	West Branch Reservoir	Mad River Detention Reservoir	Highland Lake
Sept. 30, 1974.....	703.3	612	171	8.6	119.9
Oct. 31.....	520.8	741	195	8.6	82.2
Nov. 30.....	355.1	888	251	8.6	78.2
Dec. 31.....	349.0	1,278	219	8.6	111.7
Jan. 31, 1975.....	352.0	1,557	243	8.6	137.4
Feb. 28.....	379.7	1,775	265	8.7	112.0
Mar. 31.....	478.5	2,268	377	8.8	140.5
Apr. 30.....	517.2	2,272	377	8.4	125.6
May 31.....	619.5	2,230	377	8.4	135.2
June 30.....	672.7	2,084	377	8.4	128.7
July 31.....	707.2	2,081	377	-	144.0
Aug. 31.....	695.7	1,739	377	8.6	141.3
Sept. 30.....	680.3	2,108	377	8.4	101.3

Date	Sucker Brook Reservoir	Barkhamsted Reservoir	East Branch Reservoir	Nepaug Reservoir	Whigville Reservoir
Sept. 30, 1974.....	0.17	3,690	225	1,163	5.1
Oct. 31.....	0	3,623	250	1,190	3.1
Nov. 30.....	0	3,799	297	1,075	2.6
Dec. 31.....	-	4,051	393	1,039	3.6
Jan. 31, 1975.....	-	4,051	393	959	5.1
Feb. 28.....	-	4,051	393	1,040	5.1
Mar. 31.....	.17	4,051	393	1,086	5.1
Apr. 30.....	-	4,051	393	1,100	4.6
May 31.....	.09	4,051	393	1,111	2.0
June 30.....	.09	4,027	393	1,053	1.7
July 31.....	.04	4,051	393	1,027	2.5
Aug. 31.....	-	3,996	377	985	2.9
Sept. 30.....	.04	4,051	393	1,154	5.1

01195117 HAMMONASSET RIVER NEAR NORTH MADISON, CONN.

LOCATION.--Lat 41°23'07", long 72°36'47", Middlesex County, below unnamed brook, on left bank 1,000 ft (305 m) downstream from Bunnell Road, 2.3 mi (3.7 km) northeast of North Madison and 2.1 mi (3.4 km) upstream from dam at outlet of Hammonasset Reservoir.

DRAINAGE AREA.--18.8 mi^2 (48.7 km^2).

PERIOD OF RECORD.--May 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 267.1 ft (81.41 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 342 ft^3/s (9.69 m^3/s) Dec. 9; maximum gage height, 7.37 ft (2.246 m) Mar. 20, backwater from dam; minimum discharge, 0.21 ft^3/s (0.006 m) Sept. 11, 12, gage height, 3.62 ft (1.103 m).

Period of record: Maximum discharge, 342 ft^3/s (9.69 m^3/s) Dec. 9, 1974; maximum gage height, 7.37 ft (2.246 m) Mar. 20, 1975, backwater from dam; no flow Aug. 15-17, 1974, gage height, 3.55 ft (1.082 m).

REMARKS.--Records good except those for no gage-height record on July 16 to Aug. 14 and those for short periods when the rating was in transition owing to a change between the local control and its submergence from a dam downstream, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	17	20	34	56	54	49	28	30	20	.60	1.5
2	19	18	72	38	52	55	33	27	27	10	.50	.82
3	14	16	200	40	50	54	50	28	26	6.9	.50	.56
4	11	14	128	31	49	50	194	30	25	3.9	.45	.44
5	9.0	14	85	30	49	48	118	47	24	2.6	.45	.32
6	7.8	18	61	32	49	47	81	58	55	2.0	.40	.29
7	6.7	19	55	32	48	39	68	57	60	1.8	.80	.29
8	4.7	17	61	42	48	43	61	56	55	2.8	.90	.31
9	3.6	14	262	65	48	38	56	54	50	2.7	.90	.29
10	2.7	13	200	125	48	35	52	50	40	1.9	.70	.28
11	1.9	12	114	96	49	37	42	49	30	1.8	.50	.23
12	1.5	12	82	87	49	42	38	43	40	2.1	.45	.32
13	1.5	19	66	89	44	45	36	33	45	5.2	.40	1.5
14	1.3	25	56	128	43	42	34	41	155	9.6	.40	1.5
15	1.2	23	49	104	48	41	33	41	100	14	.40	.66
16	16	19	49	80	41	47	31	57	71	20	.44	.50
17	55	17	91	75	51	48	28	65	64	7.0	.71	.44
18	57	16	99	81	69	50	29	60	60	4.5	.82	.40
19	38	15	68	113	77	52	38	54	55	3.0	.60	.37
20	27	17	54	163	80	199	40	48	47	2.5	.37	.50
21	21	34	47	100	80	220	37	39	42	10	.29	1.0
22	18	42	43	85	70	114	28	34	40	10	.31	2.4
23	16	33	40	80	70	83	12	31	37	4.0	.28	7.7
24	15	27	37	70	80	73	6.3	28	24	2.0	.28	26
25	15	24	44	90	102	72	6.6	21	15	8.0	.37	47
26	14	24	61	120	102	66	22	16	10	20	.44	52
27	14	23	60	73	72	58	44	13	8.3	7.0	.44	62
28	14	20	40	66	44	52	45	15	7.5	2.5	.34	65
29	12	19	38	65	---	52	38	19	10	1.0	.26	42
30	12	20	34	65	---	56	33	19	20	.80	1.2	26
31	13	---	32	61	---	58	---	23	---	.70	2.4	---
TOTAL	472.9	601	2348	2360	1668	1970	1382.9	1184	1272.8	190.30	17.90	342.62
MEAN	15.3	20.0	75.7	76.1	59.6	63.5	46.1	38.2	42.4	6.14	.58	11.4
MAX	57	42	262	163	102	220	194	65	155	20	2.4	65
MIN	1.2	12	20	30	41	35	6.3	13	7.5	.70	.26	.23
CFSM	.81	1.06	4.03	4.05	3.17	3.38	2.45	2.03	2.26	.33	.03	.61
IN.	.94	1.19	4.65	4.67	3.30	3.90	2.74	2.34	2.52	.38	.04	.68

WTR YR 1975 TOTAL 13810.42 MEAN 37.8 MAX 262 MIN .23 CFSM 2.01 IN 27.33

01195200 NECK RIVER NEAR MADISON, CONN.

LOCATION.--Lat 41°16'57", long 72°37'11", New Haven County, on left bank just upstream from culvert on Fort Path Road, 1.2 mi (1.9 km) west of Madison, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--6.55 mi^2 (16.96 km^2).

PERIOD OF RECORD.--September 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.93 ft (2.722 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 11.3 ft^3/s (0.320 m^3/s), 23.42 in/yr (595 mm/yr).

EXTREMES.--Current year: Maximum discharge, 120 ft^3/s (3.40 m^3/s) Mar. 20, gage height, 3.22 ft (0.981 m); minimum, 0.15 ft^3/s (0.024 m^3/s) Sept. 11, gage height, 0.78 ft (0.238 m).

Period of record: Maximum discharge, 322 ft^3/s (9.12 m^3/s) Apr. 2, 1970, gage height, 4.58 ft (1.396 m); no flow Sept. 24, 26, 27, 1964, Aug. 1, 1965.

PEAK DISCHARGE.--(BASE, 60 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
02-25	0900	2.78	76
03-20	2200	3.22	120
04-04	0930	3.10	108
06-13	2030	3.15	113
09-27	1430	2.97	95

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	3.7	2.0	13	16	20	20	8.3	6.1	2.0	.49	.98
2	4.0	3.6	18	15	14	18	15	10	7.9	1.4	.44	.49
3	3.2	3.1	43	12	12	16	27	13	5.4	1.3	.40	.36
4	2.8	2.8	27	10	9.9	14	91	13	5.9	1.1	.36	.29
5	2.6	3.3	16	9.4	10	12	48	30	5.4	.98	.36	.23
6	2.4	5.1	11	8.1	11	12	27	29	12	.92	.32	.23
7	2.3	5.0	8.5	13	11	12	21	21	16	.92	.65	.23
8	2.2	3.7	13	18	10	14	19	18	8.1	.92	.69	.23
9	2.2	2.8	47	29	9.5	13	16	14	5.0	.86	.69	.19
10	2.1	2.4	37	41	9.0	10	15	12	3.8	.86	.54	.17
11	2.0	2.2	23	28	9.5	11	14	10	2.7	.80	.44	.16
12	2.1	2.2	18	25	10	13	12	9.4	9.9	1.3	.36	.32
13	2.0	5.8	15	28	10	20	12	16	86	3.0	.32	1.2
14	2.0	7.9	13	42	11	20	11	20	79	3.9	.36	.62
15	2.2	5.6	11	28	11	18	10	14	29	3.2	.32	.42
16	14	3.4	13	21	12	19	9.9	21	16	4.0	.69	.31
17	38	2.5	35	18	11	19	9.2	31	15	2.2	1.2	.29
18	28	2.1	30	16	13	16	8.5	19	25	1.4	.74	.25
19	15	2.0	20	28	18	14	9.0	13	18	1.1	.54	.24
20	8.2	2.4	16	31	24	73	8.7	11	10	.92	.36	.34
21	5.8	11	14	25	25	82	7.9	9.2	6.7	2.0	.32	.55
22	4.8	13	12	20	21	37	6.9	8.3	4.7	1.9	.29	1.0
23	4.4	8.4	11	18	22	26	6.5	7.7	3.8	1.1	.29	6.1
24	4.0	4.9	10	16	42	23	11	7.3	3.2	.80	.36	20
25	3.8	3.8	15	19	72	25	22	8.7	2.7	2.6	.60	38
26	4.3	3.6	25	40	48	23	27	8.3	2.3	4.5	.65	30
27	3.8	2.8	19	31	28	18	22	6.7	2.0	1.7	.60	63
28	3.5	2.4	14	21	22	15	14	5.2	2.0	1.1	.40	48
29	3.2	2.3	12	21	---	14	11	3.8	2.3	.80	.36	16
30	3.1	2.2	11	25	---	19	9.2	3.1	2.7	.65	1.2	6.6
31	3.4	---	9.7	21	---	25	---	3.0	---	.60	1.5	---
TOTAL	188.8	126.0	569.2	690.5	521.9	671	540.8	404.0	398.6	50.83	16.84	236.80
MEAN	6.09	4.20	18.4	22.3	18.6	21.6	18.0	13.0	13.3	1.64	.54	7.89
MAX	38	13	47	42	72	82	91	31	86	4.5	1.5	63
MIN	2.0	2.0	2.0	8.1	9.0	10	6.5	3.0	2.0	.60	.29	.16
CFSM	.93	.64	2.81	3.40	2.84	3.30	2.75	1.98	2.03	.25	.08	1.20
IN.	1.07	.72	3.23	3.92	2.96	3.81	3.07	2.29	2.26	.29	.10	1.34

CAL YR 1974 TOTAL 4037.12 MEAN 11.1 MAX 136 MIN .40 CFSM 1.69 IN 22.93
WTR YR 1975 TOTAL 4415.27 MEAN 12.1 MAX 91 MIN .16 CFSM 1.85 IN 25.08

01195359 FARM RIVER NEAR NORTHFORD, CONN.

LOCATION.--Lat 41°24'34", long 72°45'22", New Haven County, at bridge on Reeds Gap Road East, 2.2 mi (3.5 km) northeast of Northford.

DRAINAGE AREA.--1.44 mi^2 (3.73 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JULY												
02...	1340	.70	7.7	28.5	17.0	9.0	93	70	32	12	122	0
14...	1035	1.5	7.5	23.0	19.5	8.7	94	60	26	10	99	0
28...	0940	.55	7.6	22.5	17.5	9.0	94	30	33	14	131	0
AUG.												
12...	1305	1.3	7.2	27.5	19.5	8.7	94	40	28	9.3	92	0
26...	1250	.45	7.6	20.5	17.5	8.9	93	20	32	14	136	0
SEP.												
10...	1330	.39	7.7	19.5	13.0	10.1	95	30	33	13	133	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JULY											
02...	100	23	29	1.1	.12	1.2	5.4	.03	206	.28	.39
14...	81	19	23	.88	.37	1.3	5.5	.06	184	.25	.75
28...	107	20	27	1.1	.95	2.1	9.1	.04	205	.28	.30
AUG.											
12...	75	19	19	1.1	.27	1.4	6.1	.05	181	.25	.64
26...	112	22	25	1.1	.20	1.3	5.8	.03	192	.26	.23
SEP.											
10...	109	21	24	1.1	.18	1.3	5.7	.01	230	.31	.24

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JULY											
02...	130	29	322	1	3.9	1800	140	480	1.8	1	.00
14...	110	25	276	2	5.0	8500	1800	5500	5.1	11	.04
28...	140	33	309	1	5.3	1700	200	340	4.7	2	.00
AUG.											
12...	110	33	244	15	9.3	20000	B3700	E12000	4.9	29	.10
26...	140	26	292	1	5.5	1500	120	270	2.3	11	.01
SEP.											
10...	140	27	289	2	4.2	3100	97	340	1.2	4	.00

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01195362 PISTAPAUG POND OUTLET NEAR EAST WALLINGFORD, CONN.

LOCATION.--Lat 41°25'25", long 72°45'19", New Haven County, at culvert under Reeds Gap Road West, 2.2 mi (3.5 km) southeast of East Wallingford.

DRAINAGE AREA.--0.91 mi^2 (1.46 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JULY												
02...	1425	.04	7.7	28.5	17.5	9.0	94	40	30	11	118	0
14...	0935	.20	7.6	22.5	20.0	8.6	93	60	30	9.6	105	0
28...	1045	.10	7.8	24.5	17.5	9.0	94	20	32	13	135	0
AUG.												
12...	1355	.25	7.7	29.0	20.0	8.5	92	30	35	11	115	0
26...	1330	.18	7.6	21.0	18.0	8.7	92	10	34	14	151	0
SEP.												
10...	1440	.05	7.8	19.5	14.0	9.7	93	0	35	15	178	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JULY											
02...	97	25	10	.53	.20	.73	3.2	.03	166	.23	.02
14...	86	27	11	.32	.48	.80	3.5	.05	176	.24	.10
28...	111	22	9.8	.57	.46	1.0	4.6	.05	211	.29	.06
AUG.											
12...	94	21	8.9	.34	.32	.66	2.9	.03	158	.21	.11
26...	124	21	9.6	.46	.47	.93	4.1	.04	192	.26	.09
SEP.											
10...	146	22	7.4	.46	.18	.64	2.8	.03	206	.28	.03

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JULY											
02...	120	23	259	1	3.8	3000	220	1400	6.2	1	.00
14...	110	28	245	3	4.2	25000	1000	5400	12	4	.00
28...	130	23	274	2	3.4	2600	200	680	4.2	1	.00
AUG.											
12...	130	38	181	2	3.7	5600	1000	3200	6.1	1	.00
26...	140	19	272	1	6.1	3600	830	710	3.9	3	.00
SEP.											
10...	150	3	267	1	4.5	1000	130	450	3.1	1	.00

01195368 TRIBUTARY TO FARM RIVER NEAR NORTHFORD, CONN.

LOCATION.--Lat 41°24'34", long 72°46'22", New Haven County, at bridge on State Highway 17, 1.6 mi (2.6 km) northeast of Northford.

DRAINAGE AREA.--0.85 mi^2 (2.20 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JULY												
02...	1240	.22	7.5	17.0	17.0	8.9	92	10	26	10	75	0
14...	1135	.43	7.4	25.5	20.5	8.4	92	60	24	9.2	67	0
28...	1135	.17	7.1	30.5	19.0	8.3	88	10	24	10	80	0
AUG.												
12...	1215	.34	7.3	30.5	20.0	8.4	91	10	24	9.1	75	0
26...	1210	.13	7.2	21.5	18.0	8.0	84	10	26	11	91	0
SEP.												
10...	1225	.10	7.3	19.0	14.0	9.0	84	0	26	11	86	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JULY											
02...	62	29	12	6.0	.16	6.2	27	.04	151	.21	.09
14...	55	31	12	2.6	.55	3.2	14	.09	167	.23	.19
28...	66	24	11	4.0	.49	4.5	20	.08	173	.24	.08
AUG.											
12...	62	23	8.1	3.0	.54	3.5	16	.08	174	.24	.16
26...	75	27	11	4.8	.18	5.0	22	.09	151	.21	.05
SEP.											
10...	71	26	9.7	4.2	.20	4.4	19	.08	165	.22	.04

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JULY											
02...	110	45	255	2	3.8	350	18	210	1.6	1	.00
14...	98	43	238	2	4.3	7000	1200	2600	7.4	5	.01
28...	100	35	234	1	10	1000	22	240	5.0	0	.00
AUG.											
12...	97	36	205	1	6.0	8800	B780	B3300	8.4	0	.00
26...	110	36	219	1	9.2	1000	16	900	3.8	0	.00
SEP.											
10...	110	40	226	1	6.9	420	10	140	2.1	4	.00

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01195370 FARM RIVER NEAR NORTHFORD, CONN.

LOCATION.--Lat 41°24'18", long 72°46'41", New Haven County, at bridge at Twin Rivers Ranch, 1.1 mi (1.8 km) northeast of Northford.

DRAINAGE AREA.--4.63 mi^2 (11.99 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JULY												
01...	1425	2.6	7.7	25.5	21.0	10.2	113	80	25	8.7	91	0
14...	1245	5.0	7.4	23.5	21.0	8.4	93	80	22	7.7	77	0
28...	1230	1.9	7.5	28.0	20.5	10.7	118	60	25	8.8	89	0
AUG.												
12...	1125	4.3	7.3	27.5	21.5	8.9	100	40	25	8.2	80	0
26...	1120	1.4	7.0	22.0	16.5	9.1	93	40	27	9.3	92	0
SEP.												
09...	1310	1.3	7.3	19.0	17.5	10.0	104	30	25	9.0	90	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JULY											
01...	75	24	16	.97	.08	1.1	4.6	.01	160	.22	1.12
14...	63	19	15	.94	.47	1.4	6.2	.06	151	.21	2.04
28...	73	27	13	.95	.29	1.2	5.5	.03	168	.23	.86
AUG.											
12...	66	19	15	1.1	.28	1.4	6.1	.04	164	.22	1.90
26...	75	23	14	1.1	.17	1.3	5.6	.01	157	.21	.59
SEP.											
09...	74	22	14	.88	.19	1.1	4.7	.01	186	.25	.65

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JULY											
01...	98	24	247	2	2.9	660	160	320	2.6	270	1.9
14...	87	23	208	7	4.9	5200	2300	7100	6.8	26	.35
28...	99	26	237	2	4.5	310	410	880	7.0	6	.03
AUG.											
12...	96	31	226	25	6.4	B5900	3500	B13000	7.0	2	.03
26...	110	30	193	3	15	1800	280	640	4.0	1	.00
SEP.											
09...	100	26	212	2	7.2	2000	130	1000	1.9	3	.01

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01195380 FARM RIVER AT NORTHFORD, CONN.

LOCATION.--Lat 41°22'56", long 72°47'41", New Haven County, at bridge on State Highway 22 at Northford.

DRAINAGE AREA.--8.14 mi^2 (13.10 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JULY												
01...	1325	4.5	7.5	26.5	17.0	9.2	95	100	28	8.6	92	0
14...	1400	8.5	7.2	25.5	20.5	7.9	87	130	24	6.4	80	0
28...	1345	3.3	7.5	29.0	19.0	9.1	97	60	28	8.6	92	0
AUG.												
12...	0950	7.0	7.4	27.0	18.5	9.4	96	30	30	9.6	98	0
26...	0945	2.5	7.3	21.0	17.0	8.7	90	30	29	8.7	83	0
SEP.												
10...	1030	2.2	7.5	17.0	12.5	9.7	91	40	31	8.9	93	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JULY											
01...	75	23	16	1.4	.14	1.5	6.8	.01	181	.25	2.20
14...	66	19	15	.94	.41	1.4	6.0	.04	153	.21	3.51
28...	75	23	16	1.4	.70	2.1	9.3	.03	184	.25	1.64
AUG.											
12...	80	23	17	1.0	.10	1.1	4.9	.03	181	.25	3.42
26...	68	26	15	1.7	.14	1.8	8.1	.01	156	.21	1.06
SEP.											
10...	76	25	15	.96	.17	1.1	5.0	.01	194	.26	1.17

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JULY											
01...	110	30	245	2	4.7	640	170	290	.9	0	.00
14...	86	21	214	3	8.1	10000	1400	2600	6.4	2	.05
28...	110	30	223	2	4.7	1200	280	780	3.1	5	.04
AUG.											
12...	110	34	248	3	6.2	7200	1400	4500	4.6	8	.15
26...	110	40	235	1	6.7	1000	190	430	4.1	0	.00
SEP.											
10...	110	38	232	1	4.7	1400	150	520	1.6	1	.01

01195390 FARM RIVER NEAR NORTHFORD, CONN.

LOCATION.--Lat 41°21'44", long 72°48'06", New Haven County, at bridge on Augur Road, 2.2 mi (3.5 km) south of Northford.

DRAINAGE AREA.--10.3 mi^2 (26.7 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JULY												
01...	1220	6.0	7.6	23.5	17.0	9.6	99	60	31	9.0	98	0
14...	1515	11	7.4	23.5	20.0	8.4	91	120	27	6.9	83	0
28...	1515	4.2	7.8	28.0	18.5	9.4	100	50	31	9.1	102	0
AUG.												
12...	0850	9.2	7.4	23.0	18.0	9.1	96	100	31	8.8	93	0
25...	1730	3.0	7.4	22.0	17.0	9.3	96	20	32	9.0	98	0
SEP.												
10...	0930	2.9	7.6	14.0	12.5	10.2	95	30	34	9.1	99	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JULY											
01...	80	28	16	2.1	.11	2.2	9.8	.01	176	.24	2.85
14...	68	21	15	1.4	.41	1.8	8.0	.04	157	.21	4.66
28...	84	26	16	2.1	.30	2.4	11	.01	197	.27	2.23
AUG.											
12...	76	24	16	1.7	.12	1.8	8.1	.01	181	.25	4.50
25...	80	28	15	2.4	.16	2.6	11	.01	175	.24	1.42
SEP.											
10...	81	27	15	2.4	.13	2.5	11	.01	203	.28	1.59

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JULY											
01...	110	34	260	1	3.9	1100	150	680	1.4	25	.40
14...	96	28	234	3	5.3	8800	3900	9500	4.1	2	.06
28...	110	31	251	1	2.6	1600	130	600	6.3	3	.03
AUG.											
12...	110	37	262	1	5.9	9300	B1000	2100	5.0	6	.15
25...	120	37	242	1	6.2	460	95	640	1.9	0	.00
SEP.											
10...	120	41	248	1	4.0	1900	310	800	2.1	4	.03

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01195393 FARM RIVER NEAR TOTOKET, CONN.

LOCATION.--Lat 41°20'34", long 72°48'46", New Haven County, at head of Pages Millpond, 1.1 mi (1.8 km) north of Totoket.

DRAINAGE AREA.--12.0 mi^2 (31.1 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JULY												
01...	1110	7.0	7.6	24.5	15.0	9.5	93	60	33	10	105	0
16...	1105	12	7.3	27.5	20.5	8.1	89	130	26	7.0	80	0
28...	1620	5.1	7.7	27.5	19.5	9.6	103	30	35	10	104	0
AUG.												
11...	1140	10	7.8	28.0	18.0	8.8	93	30	38	11	107	0
25...	1640	3.9	7.4	23.0	17.0	9.1	94	20	36	10	103	0
SEP.												
09...	1115	3.4	7.5	20.5	16.0	8.7	88	40	36	11	109	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JULY											
01...	86	29	21	2.5	.13	2.6	12	.01	195	.27	3.69
16...	66	22	17	1.6	.49	2.1	9.3	.06	169	.23	5.89
28...	85	27	21	2.7	.19	2.9	13	.01	231	.31	3.18
AUG.											
11...	88	26	21	2.7	.13	2.8	13	.01	224	.30	6.05
25...	84	29	20	3.0	.40	3.4	15	.01	204	.28	2.15
SEP.											
09...	89	29	22	3.0	.13	3.1	14	.01	215	.29	1.97

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JULY											
01...	120	37	283	3	4.2	3300	460	900	2.8	0	.01
16...	94	28	234	6	6.4	90000	510	1700	6.4	2	.07
28...	130	43	258	1	3.3	520	210	180	4.3	1	.01
AUG.											
11...	140	52	306	1	2.7	2800	350	360	4.8	3	.08
25...	130	47	285	1	6.6	780	170	510	2.2	1	.01
SEP.											
09...	140	46	287	1	5.5	5000	370	1700	2.8	11	.10

01195395 TRIBUTARY TO FARM RIVER AT TOTOKET, CONN.

LOCATION.--Lat 41°20'28", long 72°49'20", New Haven County, at culvert under Barberry Road, 1.0 mi (1.6 km) north of Totoket.

DRAINAGE AREA.--0.36 mi^2 (0.93 km^2).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JUNE												
30...	1525	.20	7.5	25.5	20.0	9.3	101	20	53	13	126	0
JULY												
15...	1440	.40	7.0	26.5	22.0	6.1	69	90	36	8.8	84	0
29...	1415	.14	7.0	28.0	19.0	7.7	82	20	22	14	126	0
AUG.												
11...	1030	.30	7.4	27.0	19.0	8.2	87	20	57	14	130	0
25...	1455	.11	7.3	23.5	17.5	7.9	82	20	54	14	132	0
SEP.												
09...	0915	.10	7.4	18.0	15.5	8.3	83	30	51	14	131	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JUNE											
30...	103	48	20	9.7	.17	9.9	44	.10	270	.37	.15
JULY											
15...	69	37	17	5.0	1.5	6.5	29	.55	202	.27	.22
29...	103	45	16	8.9	.26	9.2	41	.12	276	.38	.10
AUG.											
11...	107	43	18	8.8	.32	9.1	40	.11	287	.39	.23
25...	108	45	17	8.9	.43	9.3	41	.12	278	.38	.08
SEP.											
09...	107	45	19	9.1	.14	9.2	41	.10	190	.26	.05

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUNE											
30...	190	83	420	2	6.4	2200	1500	1800	3.0	4	.00
JULY											
15...	130	57	298	15	13	9500	10000	36000	20	39	.04
29...	110	9	361	2	20	9000	240	800	2.8	9	.00
AUG.											
11...	200	93	399	1	8.3	4500	2200	1600	4.3	2	.00
25...	190	84	360	2	11	4200	520	3000	6.0	9	.00
SEP.											
09...	190	78	363	1	8.3	22000	290	8600	5.8	3	.00

01195397 TRIBUTARY TO FARM RIVER AT TOTOKET, CONN.

LOCATION.--Lat 41°20'09", long 72°49'50", New Haven County, at culvert under Thompson Street, 0.9 mi (1.4 km) northwest of Totoket.

DRAINAGE AREA.--0.27 mi^2 (0.70 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JULY												
01...	0935	.15	7.2	21.0	20.0	2.9	32	90	33	10	136	0
16...	0945	.19	7.1	24.0	23.0	4.5	52	190	22	6.2	87	0
28...	1750	.19	8.8	28.0	28.5	15.2	192	50	30	9.1	121	0
AUG.												
11...	0940	.15	7.3	25.0	24.0	6.2	73	40	32	10	126	0
25...	1540	.46	7.4	24.0	22.5	7.6	87	100	29	10	118	0
SEP.												
09...	1010	.07	7.4	18.0	20.0	5.3	58	30	27	10	116	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JULY											
01...	112	8.4	14	.04	.78	.82	3.6	.09	180	.24	.07
16...	71	7.6	9.3	.19	.79	.98	4.3	.09	122	.17	.06
28...	99	11	11	.04	.97	1.0	4.5	.08	138	.19	.07
AUG.											
11...	103	9.6	12	.04	1.6	1.6	7.3	.12	171	.23	.07
25...	97	10	12	.04	.97	1.0	4.5	.09	148	.20	.18
SEP.											
09...	95	13	12	.01	1.9	1.9	8.5	.08	161	.22	.03

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JULY											
01...	120	12	260	8	14	110	<1	95	12	6	.00
16...	80	9	179	9	11	7800	3600	9800	11	4	.00
28...	110	13	199	7	.3	230	50	70	14	9	.00
AUG.											
11...	120	18	242	6	10	140	814	100	12	12	.00
25...	110	17	222	4	7.5	250	46	260	10	1	.00
SEP.											
09...	110	13	217	2	7.4	1600	100	400	14	11	.00

01195402 BURRS BROOK AT TOTOKET, CONN.

LOCATION.--Lat 41°19'26", long 72°48'53", New Haven County, at bridge on Totoket Road at Totoket.

DRAINAGE AREA.--1.62 mi^2 (4.20 km^2).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JUNE												
30...	1430	.90	8.0	27.0	24.0	9.8	115	60	36	12	162	0
JULY												
15...	1340	1.7	7.0	27.0	23.0	6.5	76	110	19	4.3	90	0
29...	1310	.65	7.9	29.0	23.5	9.8	114	20	36	14	193	0
AUG.												
11...	1240	1.4	7.9	30.5	22.0	9.1	10	30	40	16	191	0
26...	0835	.12	7.5	20.5	19.0	7.0	74	60	40	15	190	0
SEP.												
08...	1520	.46	7.5	26.0	19.0	9.6	102	30	34	16	199	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JUNE											
30...	133	47	18	1.6	.21	1.8	8.0	.08	240	.33	.58
JULY											
15...	74	16	12	.43	.88	1.3	5.8	.35	141	.19	.65
29...	158	39	23	1.1	.41	1.5	6.7	.11	268	.36	.47
AUG.											
11...	157	61	17	1.1	.33	1.4	6.3	.17	295	.40	1.12
26...	156	46	36	.91	.51	1.4	6.3	.14	304	.41	.10
SEP.											
08...	163	35	20	.76	.71	1.5	6.5	.05	270	.37	.34

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUNE											
30...	140	6	418	4	2.6	1200	220	250	6.4	6	.01
JULY											
15...	65	0	214	80	14	52000	15000	44000	12	310	1.4
29...	150	0	382	6	3.9	6400	980	850	11	20	.04
AUG.											
11...	170	9	428	4	3.8	3100	250	1000	5.3	5	.02
26...	160	6	430	6	9.6	4800	770	1100	12	1	.00
SEP.											
08...	150	0	360	10	10	50000	3000	3900	7.5	43	.05

01195405 FARM RIVER AT FOXON, CONN.

LOCATION.--Lat 41°19'24", long 72°50'02", New Haven County, at bridge on River Road at Foxon.

DRAINAGE AREA.--1.58 mi^2 (4.09 km^2).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JUNE												
30...	1335	1.4	7.7	25.0	22.0	9.3	106	100	34	10	105	0
JULY												
15...	1235	3.1	7.2	26.0	21.0	7.8	87	90	26	6.6	82	0
29...	1225	.76	7.4	27.5	22.0	7.3	83	70	35	11	118	0
AUG.												
11...	1350	.62	7.4	30.5	23.0	9.5	109	40	35	9.6	113	0
25...	1210	.59	7.2	24.0	19.0	6.8	72	70	36	11	115	0
SEP.												
08...	1410	.46	7.6	23.5	19.0	9.8	104	20	37	11	118	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JUNE											
30...	86	30	19	2.5	.19	2.7	12	.05	206	.28	.78
JULY											
15...	67	19	14	1.6	.63	2.2	9.9	.14	155	.21	1.30
29...	97	29	20	2.3	.63	2.9	13	.06	220	.30	.45
AUG.											
11...	93	26	19	2.2	.32	2.5	11	.06	205	.28	.34
25...	94	30	20	2.5	.29	2.8	12	.05	195	.27	.31
SEP.											
08...	97	29	21	2.6	.25	2.9	13	.04	226	.31	.28

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUNE											
30...	130	40	305	2	3.4	2000	180	500	4.5	11	.04
JULY											
15...	92	25	223	30	8.3	18000	6900	22000	7.9	54	.45
29...	130	36	264	2	7.5	3100	500	360	4.7	7	.01
AUG.											
11...	130	34	300	5	7.2	1900	220	190	4.7	3	.01
25...	140	41	287	3	12	2300	440	820	4.7	1	.00
SEP.											
08...	140	41	281	2	4.7	3900	550	240	6.3	3	.00

01195408 MALONEY BROOK AT FOXON, CONN.

LOCATION.--Lat 41°19'20", long 72°51'13", New Haven County, at culvert under State Highway 80, 1.0 mi (1.6 km) west of Foxon.

DRAINAGE AREA.--0.65 mi^2 (1.68 km^2).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JUNE												
30...	1200	.19	7.1	24.0	17.0	9.3	96	30	29	12	106	0
JULY												
15...	1140	.50	6.6	26.5	20.0	8.2	89	90	16	4.4	47	0
29...	1110	.12	6.9	26.0	17.0	7.4	76	40	31	13	111	0
AUG.												
11...	1445	.10	6.8	30.5	19.0	7.0	74	30	33	13	115	0
25...	1055	.19	6.8	22.5	16.0	6.3	64	40	31	8.3	113	0
SEP.												
08...	1255	.08	6.8	25.0	17.0	5.3	55	10	32	14	123	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JUNE											
30...	87	28	18	2.8	.20	3.0	13	.01	193	.26	.10
JULY											
15...	39	9.8	7.5	.72	.69	1.4	6.2	.12	106	.14	.14
29...	91	27	20	2.6	.26	2.9	13	.03	218	.30	.07
AUG.											
11...	94	27	17	2.4	.13	2.5	11	.03	214	.29	.06
25...	93	25	15	2.5	.18	2.7	12	.03	191	.26	.10
SEP.											
08...	101	25	16	2.6	.15	2.8	12	.01	215	.29	.05

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUNE											
30...	120	35	286	2	13	2200	400	600	3.8	7	.00
JULY											
15...	58	20	132	15	19	72000	20000	33000	10	32	.04
29...	130	40	268	2	22	4800	170	490	9.5	4	.00
AUG.											
11...	140	42	302	1	29	1500	170	340	7.6	1	.00
25...	110	19	266	1	29	3200	280	700	3.3	1	.00
SEP.											
08...	140	37	279	1	31	660	37	220	5.2	1	.00

01195413 FARM RIVER NEAR EAST HAVEN, CONN.

LOCATION.--Lat 41°17'40", long 72°51'43", New Haven County, at bridge on private gun club road, 1.3 mi (2.1 km) north of East Haven.

DRAINAGE AREA.--19.0 mi^2 (49.2 km^2).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JUNE												
30...	1055	4.8	7.3	22.0	17.0	8.8	91	90	30	10	104	0
JULY												
15...	0955	12	7.1	21.5	20.0	7.4	80	100	26	7.7	88	0
29...	0945	3.0	7.3	24.5	18.0	7.3	77	40	30	10	106	0
AUG.												
11...	1540	2.4	7.5	29.0	21.0	9.8	109	30	34	10	104	0
25...	0945	2.1	7.1	21.5	17.0	6.8	70	40	35	9.5	95	0
SEP.												
08...	1110	2.0	7.3	22.5	16.5	8.3	85	80	33	10	88	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
JUNE											
30...	85	29	20	2.9	.19	3.1	14	.01	191	.26	2.48
JULY											
15...	72	22	16	1.9	.39	2.3	10	.09	168	.23	5.62
29...	87	24	18	2.7	.41	3.1	14	.04	198	.27	1.60
AUG.											
11...	85	25	18	2.9	.14	3.0	13	.03	212	.29	1.37
25...	78	25	16	2.7	.28	3.0	13	.04	170	.23	1.00
SEP.											
08...	72	26	17	3.1	.20	3.3	15	.03	221	.30	1.19

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUNE											
30...	120	31	281	2	8.3	3000	190	600	3.2	3	.04
JULY											
15...	97	24	246	9	11	16000	3500	6100	5.1	15	.50
29...	120	29	257	2	8.5	2000	500	670	3.6	6	.05
AUG.											
11...	130	41	280	1	5.3	640	160	180	4.4	9	.06
25...	130	49	242	2	12	1900	400	1300	3.8	1	.01
SEP.											
08...	120	51	269	2	7.1	1500	190	320	4.9	4	.02

01195415 FARM RIVER AT EAST HAVEN, CONN.

LOCATION.--Lat 41°16'37", long 72°51'49", New Haven County, at bridge on Main Street at East Haven.

DRAINAGE AREA.--20.3 mi^2 (52.6 km^2).

PERIOD OF RECORD.--Chemical analyses: June to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JUNE												
30...	0935	5.2	7.4	20.5	18.0	8.0	84	60	33	10	106	0
JULY												
15...	0855	13	7.1	21.0	21.0	7.7	86	60	22	5.7	70	0
29...	0840	3.3	7.4	25.0	19.5	7.4	80	40	33	11	116	0
AUG.												
11...	1705	--	7.5	28.0	24.5	10.0	119	50	140	410	122	0
25...	1345	--	7.3	23.5	19.5	7.5	81	40	29	16	100	0
SEP.												
08...	0935	--	7.4	23.0	17.5	7.6	79	20	38	13	122	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)
JUNE												
30...	87	31	23	2.7	.22	2.9	13	.01	203	.28	2.85	120
JULY												
15...	57	19	16	1.5	.58	2.1	9.2	.12	120	.16	4.24	78
29...	95	26	22	2.6	.07	2.7	12	.04	223	.30	1.99	130
AUG.												
11...	100	850	6100	.86	.60	1.5	6.5	.09	12500	17.0	--	2000
25...	82	36	110	2.2	.49	2.7	12	.04	348	.47	--	140
SEP.												
08...	100	35	85	2.9	.27	3.2	14	.03	349	.47	--	150

DATE	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	SALINITY (PPT)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUNE											
30...	37	308	--	3	6.8	6600	2200	960	2.2	2	.03
JULY											
15...	21	211	--	7	8.9	190000	40000	47000	11	120	4.2
29...	33	297	--	2	7.4	5200	2300	1400	8.2	6	.05
AUG.											
11...	1900	14200	8.5	5	6.2	2200	500	2100	6.1	16	--
25...	56	586	--	3	8.0	6200	600	1200	6.0	1	--
SEP.											
08...	48	464	--	8	7.8	11000	930	730	4.0	9	--

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CONN.

LOCATION.--Lat 41°31'45", long 72°51'50", New Haven County, at bridge on Cheshire Street, 3 mi (5 km) west of Meriden.

DRAINAGE AREA.--69.6 mi^2 (180.3 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
09...	1355	63	7.3	10.5	10.0	6.4	57	12	0	90	110	230
NOV.												
05...	1415	107	7.1	8.0	12.0	9.4	88	12	20	160	90	50
DEC.												
10...	1315	340	7.3	3.5	2.0	12.2	93	8.7	10	140	100	30
JAN.												
14...	1305	560	7.7	-1.0	2.5	14.2	104	8.1	10	160	50	20
FEB.												
19...	1220	177	7.1	10.0	5.0	12.9	101	10	0	80	160	40
MAR.												
11...	1330	125	7.3	4.5	4.0	13.6	103	10	0	70	130	20
APR.												
09...	1350	175	7.4	7.0	7.0	12.5	102	9.4	0	120	80	20
MAY												
13...	1255	175	7.2	24.0	16.0	8.0	81	7.6	10	160	130	20
JUNE												
17...	1300	92	7.1	25.0	18.0	6.7	71	12	20	230	180	30
JULY												
08...	1330	77	6.9	28.0	22.0	4.1	46	9.0	20	80	150	10
AUG.												
05...	1310	72	7.0	31.5	23.0	4.0	46	11	10	30	140	20
SEP.												
16...	1415	40	7.0	20.5	13.5	6.4	61	12	20	100	80	80

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
09...	29	5.0	80	0	66	24	22	.02	1.9	2.1	2.7	2.0
NOV.												
05...	24	3.8	68	0	56	21	19	.01	1.2	.78	1.0	.64
DEC.												
10...	15	2.9	34	0	28	16	12	.02	.67	.28	.36	.39
JAN.												
14...	14	2.6	30	0	25	15	21	.00	.62	.22	.28	.51
FEB.												
19...	22	4.3	60	0	49	21	42	.02	1.5	.42	.54	.53
MAR.												
11...	24	3.7	61	0	50	26	23	.02	1.5	.47	.61	.69
APR.												
09...	20	4.0	47	0	39	19	17	.02	1.0	.21	.27	.49
MAY												
13...	11	1.6	60	0	49	18	18	.01	.90	.29	.37	.67
JUNE												
17...	24	3.8	67	0	55	20	20	.01	1.5	.60	.77	.90
JULY												
08...	27	4.1	85	0	70	23	23	.01	1.6	.92	1.2	1.3
AUG.												
05...	31	4.6	82	0	67	21	22	.02	1.7	.63	.81	1.1
SEP.												
16...	28	3.5	129	0	106	23	20	.01	2.1	1.2	1.5	2.4

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
09...	.00	3.9	17	.94	289	182	31.0	.25	93	27	260	3
NOV.												
05...	.00	1.8	8.1	.56	159	152	43.9	.21	76	20	215	20
DEC.												
10...	.11	1.1	4.7	.22	97	91	83.5	.12	49	22	130	40
JAN.												
14...	.29	1.1	5.0	.18	115	115	174	.16	46	21	152	10
FEB.												
19...	.11	2.0	9.0	.46	174	166	79.3	.23	73	23	275	20
MAR.												
11...	.22	2.2	9.7	.59	152	145	48.9	.20	75	25	230	10
APR.												
09...	.28	1.5	6.6	.33	130	134	63.3	.18	66	28	177	6
MAY												
13...	.38	1.6	7.0	.52	137	121	57.2	.16	34	0	184	3
JUNE												
17...	.30	2.4	11	.42	144	139	34.5	.19	76	21	205	20
JULY												
08...	.38	2.9	13	.58	192	170	35.3	.23	84	15	220	7
AUG.												
05...	.47	2.8	12	.65	206	149	29.0	.20	96	29	240	8
SEP.												
16...	1.2	4.5	20	.89	205	168	18.1	.23	84	0	268	3

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
09...	5	6.4	1400	56	5	6.4	0	.3	--	--	--
NOV.											
05...	4	8.6	180	120	190	7.4	0	.1	1.7	.0	0
DEC.											
10...	8	2.7	16000	2900	860	6.8	0	.1	1.5	1.0	--
JAN.											
14...	7	1.0	300	100	120	5.8	1	.1	--	--	--
FEB.											
19...	9	7.6	1200	170	120	3.2	0	.1	--	--	--
MAR.											
11...	3	4.9	5	1	14	4.2	0	.1	1.0	1.0	--
APR.											
09...	5	3.0	20	6	9	5.4	0	.1	.0	.0	--
MAY											
13...	3	6.1	3300	1200	340	4.7	0	.1	9.0	.0	--
JUNE											
17...	5	8.5	10000	600	340	7.2	0	.1	.0	.0	--
JULY											
08...	3	17	580000	16000	740	6.2	0	.2	6.7	.0	--
AUG.											
05...	6	13	40000	2000	550	11	0	.2	.0	.0	--
SEP.											
16...	4	21	3100	240	130	7.3	1	.2	.0	.0	--

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 09...	.0	0	4.7	.0	8.5	1.2	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 09...	0	0	.0	.0	.0	.0	.0	.0	.0	200	2	6

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 09...	100	6.6	3300	3	7	9	23	80000	24	1600	.0	75

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CONN.

LOCATION.--Lat 41°26'58", long 72°50'29", New Haven County, on right bank on Wilbur Cross Highway, 0.8 mi (1.3 km) downstream from bridge on Quinnipiac Street in Wallingford, and 2 mi (3 km) upstream from Wharton Brook.

DRAINAGE AREA.--110 mi^2 (285 km^2).

PERIOD OF RECORD.--Discharge: October 1930 to current year.
Chemical analyses: September 1953, April 1954, October 1956 to September 1957, June 1968 to current year.
Water temperatures: October 1956 to September 1957, November 1969 to December 1970.

GAGE.--Water-stage recorder and timber control. Datum of gage is 19.24 ft (5.864 m) above mean sea level. Prior to Jan. 27, 1965, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE (adjusted for storage and diversion since October 1960).--45 years, 205 ft^3/s (5.806 m^3/s), 25.31 in/yr (643 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,140 ft^3/s (60.6 m^3/s) Sept. 27, gage height, 8.44 ft (2.573 m); minimum, about 50 ft^3/s (1.42 m^3/s) Sept. 9.

Period of record: Maximum discharge, 5,230 ft^3/s (148 m^3/s) Sept. 21, 1938, gage height, 10.55 ft (3.216 m), present datum, by computation of peak discharge over dam 1 mi (2 km) upstream; minimum, 8 ft^3/s (0.227 m^3/s) Nov. 2, 1930.
Specific conductance (1970-71): Maximum recorded, 530 micromhos July 16, 1970; minimum recorded, 47 micromhos July 4, 1970.
Water temperatures: Maximum, 31°C July 28, 1970; minimum, freezing point on many days during winter months.

PEAK DISCHARGE.--(BASE, 900 ft^3/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-02	1530	6.87	1,380	04-03	2000	7.29	1,550
12-09	0100	6.30	1,150	09-27	2000	8.44	2,140
03-20	0830	6.22	1,130				

REMARKS.--Records good except those for periods of no record Oct. 12 to Nov. 4 and Aug. 17 to Sept. 26, which are fair. Flow regulated by Wolcott Reservoir (see station 01195800), Broad Brook Reservoir (see station 01196225), Bradley Hubbard Reservoir (see station 01196240), and by mills upstream. Diversion from Wolcott Reservoir for municipal supply of New Britain and diversion into the basin from Merrimere and Elmere Reservoirs for municipal supply of Meriden. See REVISIONS summary paragraph in WSP 1901. Records of iron, specific conductance, and pH of daily samples for 1956-57 available in district office at Hartford, Conn.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	170	123	223	275	288	277	224	164	84	102	100
2	188	160	795	236	256	275	240	376	153	80	96	85
3	159	150	882	209	245	258	726	293	132	80	88	75
4	202	160	437	197	229	239	1340	297	126	75	85	65
5	146	173	279	191	229	226	736	287	128	67	89	60
6	138	191	243	181	236	222	419	231	363	67	86	55
7	136	174	225	218	242	220	348	216	303	75	133	52
8	133	147	422	230	227	233	311	204	189	92	176	51
9	126	137	948	388	217	214	288	193	152	86	173	50
10	117	127	590	576	201	197	271	238	131	109	128	100
11	119	122	351	460	205	199	259	250	121	192	101	80
12	105	128	297	466	192	212	234	300	204	174	96	60
13	100	271	274	576	191	246	219	278	456	220	87	75
14	100	279	254	677	198	231	220	296	301	528	81	100
15	350	204	243	471	192	229	210	252	205	701	77	85
16	370	169	273	351	191	238	204	245	174	650	75	65
17	250	151	540	307	198	244	205	236	164	400	80	65
18	200	145	571	371	216	226	195	199	156	445	80	65
19	180	141	351	684	259	242	181	183	147	179	75	70
20	170	151	287	576	289	978	178	175	130	151	70	80
21	150	245	263	394	268	834	234	166	115	147	60	80
22	140	236	251	342	246	446	345	157	107	147	60	103
23	135	180	240	314	270	359	337	153	103	169	60	150
24	140	155	237	293	465	325	258	164	102	148	60	300
25	150	153	230	396	774	353	218	179	133	138	60	600
26	160	155	225	630	573	308	201	164	99	137	65	1500
27	140	142	225	463	369	250	189	151	93	137	80	2050
28	130	137	220	340	307	240	182	141	93	137	75	1450
29	120	132	218	342	---	235	199	130	93	128	70	506
30	130	128	212	366	---	308	205	123	92	106	90	323
31	200	---	209	311	---	343	---	167	---	96	150	---
TOTAL	5149	5013	10915	11779	7760	9418	9429	6668	4929	5945	2808	8500
MEAN	166	167	352	380	277	304	314	215	164	192	90.6	283
MAX	370	279	948	684	774	978	1340	376	456	701	176	2050
MIN	100	122	123	181	191	197	178	123	92	67	60	50
(†)	+3.9	+8.6	+11.6	+9.5	+7.4	-1.0	+5.3	+5.3	+3.5	+3.8	-0.9	+9.8
MEAN‡	170	176	364	390	284	303	319	220	168	196	89.7	293
CFSM‡	1.55	1.60	3.31	3.55	2.58	2.75	2.90	2.00	1.53	1.78	0.82	2.66
IN‡	1.79	1.78	3.82	4.09	2.69	3.17	3.24	2.31	1.71	2.05	0.94	2.97

CAL YR 1974	TOTAL 87860	MEAN 241	MAX 1690	MIN 47	MEAN‡ 246	CFSM‡ 2.24	IN‡ 30.27
WTR YR 1975	TOTAL 88313	MEAN 242	MAX 2050	MIN 50	MEAN‡ 248	CFSM‡ 2.25	IN‡ 30.56

†Change in contents in Wolcott, Broad Brook, and Bradley Hubbard Reservoirs, diversion from Wolcott Reservoir, and diversion into the basin from Merrimere and Elmere Reservoirs, equivalent in cubic feet per second; records furnished by cities of New Britain and Meriden.

‡Adjusted for diversion and change in contents.

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
09...	1155	120	7.4	11.0	13.0	9.3	90	12	10	60	210	20
NOV.												
05...	1300	165	7.1	8.5	13.0	8.2	77	11	10	190	220	30
DEC.												
10...	1145	570	7.6	2.0	3.0	12.8	95	8.1	20	150	70	50
JAN.												
14...	1200	680	7.7	-1.0	3.0	13.4	99	8.1	10	160	70	30
FEB.												
19...	1115	245	7.2	13.0	6.0	13.0	104	11	10	80	210	20
MAR.												
11...	1240	215	7.3	4.5	5.0	13.7	107	10	10	90	200	20
APR.												
09...	1250	315	7.4	6.5	4.0	13.2	100	9.8	20	130	140	20
MAY												
13...	1215	325	7.3	21.0	17.5	10.0	104	7.5	10	60	140	10
JUNE												
17...	1215	165	7.1	22.5	19.5	7.5	81	11	20	120	180	20
JULY												
08...	1215	88	7.2	26.0	24.5	6.7	79	9.2	20	20	90	10
AUG.												
05...	1200	87	7.2	29.5	26.0	7.0	85	11	10	20	190	10
SEP.												
16...	1230	70	7.1	18.5	16.0	9.0	91	10	10	60	160	20

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
09...	31	7.0	90	0	74	26	28	.01	2.0	1.8	2.3	1.8
NOV.												
05...	26	5.2	80	0	66	24	27	.01	1.4	1.7	2.2	1.9
DEC.												
10...	15	3.2	39	0	32	18	20	.02	.69	.46	.59	.69
JAN.												
14...	17	3.7	44	0	36	17	26	.00	.73	.43	.55	.69
FEB.												
19...	26	5.6	79	0	65	23	46	.03	1.5	1.4	1.8	1.2
MAR.												
11...	27	5.0	83	0	68	25	28	.02	1.4	1.4	1.8	1.7
APR.												
09...	22	5.4	60	0	49	21	19	.02	1.1	.59	.76	.70
MAY												
13...	13	1.6	76	0	62	23	27	.01	1.2	.90	1.2	1.5
JUNE												
17...	24	4.5	79	0	65	23	24	.01	1.6	1.2	1.5	1.4
JULY												
08...	31	5.8	105	0	86	28	31	.01	1.7	1.4	1.8	1.9
AUG.												
05...	36	6.2	94	0	77	24	30	.02	1.6	.90	1.2	1.9
SEP.												
16...	31	6.0	89	0	73	26	28	.01	2.1	1.0	1.3	1.9

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
09...	.00	3.8	17	.07	220	204	66.1	.28	110	32	310	7
NOV.												
05...	.20	3.3	15	.72	200	165	73.5	.22	86	21	270	30
DEC.												
10...	.23	1.4	6.1	.22	121	107	165	.15	51	19	146	50
JAN.												
14...	.26	1.4	6.3	.20	142	137	252	.19	58	22	170	30
FEB.												
19...	.00	2.7	12	.47	201	200	132	.27	88	23	330	10
MAR.												
11...	.30	3.1	14	.50	186	179	104	.24	88	20	290	9
APR.												
09...	.11	1.8	8.0	.32	174	155	132	.21	77	28	215	4
MAY												
13...	.60	2.7	12	.61	168	152	133	.21	39	0	232	4
JUNE												
17...	.20	3.0	13	.58	177	160	71.3	.22	78	14	230	27
JULY												
08...	.50	3.6	16	.85	240	201	47.8	.27	100	15	292	5
AUG.												
05...	1.0	3.5	16	.63	235	179	42.0	.24	120	38	270	4
SEP.												
16...	.90	4.0	18	.79	225	175	33.1	.24	100	29	268	2

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
09...	6	5.7	10000	50	40	11	3	.2	--	--	--
NOV.											
05...	4	10	39000	2900	780	--	2	.2	5.0	1.0	1
DEC.											
10...	11	1.6	56000	10000	4800	8.6	1	.1	3.5	.5	--
JAN.											
14...	11	1.4	50000	850	440	5.8	1	.1	3.0	2.5	--
FEB.											
19...	9	8.0	450	42	65	4.4	0	.3	.0	.0	--
MAR.											
11...	5	6.7	15000	10000	2000	6.8	1	.3	--	--	--
APR.											
09...	9	3.8	26000	5300	500	6.3	0	.2	--	--	--
MAY											
13...	6	6.1	8500	920	110	4.6	0	.2	9.7	.0	--
JUNE											
17...	9	10	60000	1200	96	6.9	<1	.2	3.3	.0	--
JULY											
08...	4	11	80000	500	180	5.5	0	.0	27	.0	--
AUG.											
05...	7	9.5	3200	800	180	11	1	.1	27	.0	--
SEP.											
16...	5	11	4400	170	130	10	0	.1	--	--	--

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 09...	.0	8	1.5	.0	.8	.3	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 09...	0	0	.0	.0	.0	.0	.0	.0	.0	0	0	1

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 09...	100	35	1400	2	1	56	100	80000	31	2500	.0	89

01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CONN.

LOCATION.--Lat 41°23'24", long 72°52'19", New Haven County, at bridge on U.S. Highway 5, at North Haven.

DRAINAGE AREA.--128 mi^2 (332 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.												
09...	0940	7.3	14.0	11.5	7.4	68	12	20	100	210	30	33
NOV.												
05...	1100	7.2	11.5	13.5	6.2	57	11	30	210	220	30	29
DEC.												
10...	1100	7.4	1.0	4.0	12.5	95	7.8	20	160	70	40	24
JAN.												
14...	1110	7.6	-3.5	4.0	13.4	101	6.1	10	180	80	30	21
FEB.												
19...	1030	7.2	10.0	5.0	12.4	97	10	50	110	220	90	27
MAR.												
11...	1135	7.3	4.5	4.0	11.8	89	9.6	10	90	190	20	31
APR.												
15...	1130	7.4	11.5	9.0	9.6	83	9.7	10	80	160	10	27
MAY												
13...	1105	7.4	19.5	17.5	6.9	72	7.3	10	60	130	10	28
JUNE												
17...	1120	7.1	21.0	19.0	5.5	59	11	10	130	130	10	30
JULY												
08...	1130	7.3	24.0	24.0	3.6	42	9.8	10	40	230	10	33
AUG.												
05...	1100	7.2	27.5	25.5	3.5	42	11	20	20	240	10	35
SEP.												
16...	1115	7.1	17.0	15.0	5.8	57	11	20	50	190	20	36

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.											
09...	7.0	106	0	87	31	30	.03	2.6	2.5	3.2	3.1
NOV.											
05...	8.8	99	0	81	39	86	.01	1.9	1.9	2.4	3.5
DEC.											
10...	9.0	39	0	32	37	14	.02	.78	.60	.77	.90
JAN.											
14...	9.4	45	0	37	29	60	.00	.88	.55	.71	1.0
FEB.											
19...	6.0	81	0	66	27	51	.03	1.9	1.7	2.2	1.3
MAR.											
11...	5.8	87	0	71	29	40	.03	1.6	1.4	1.8	2.3
APR.											
15...	4.8	71	0	58	24	28	.02	1.6	1.4	1.8	2.1
MAY											
13...	6.9	71	0	58	28	47	.01	1.7	.85	1.1	2.7
JUNE											
17...	5.2	68	0	56	25	33	.01	2.0	.92	1.2	1.5
JULY											
08...	6.4	111	0	91	31	40	.01	2.1	1.7	2.2	4.2
AUG.											
05...	6.8	97	0	80	28	38	.03	2.1	1.2	1.5	2.8
SEP.											
16...	1.0	108	0	89	34	33	.01	3.0	2.2	2.8	7.0

01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.											
09...	.60	5.7	25	.87	272	233	.32	110	24	310	4
NOV.											
05...	1.6	5.4	24	.88	225	310	.42	110	27	300	20
DEC.											
10...	.30	1.7	7.4	.26	127	304	.41	97	65	158	50
JAN.											
14...	.45	1.9	8.3	.24	150	285	.39	91	54	217	20
FEB.											
19...	.00	3.2	14	.45	211	206	.28	92	26	410	20
MAR.											
11...	.90	3.9	17	.47	274	202	.27	100	30	310	10
APR.											
15...	.70	3.7	16	.45	201	200	.27	87	29	250	9
MAY											
13...	1.9	4.4	19	.59	234	204	.28	98	40	278	3
JUNE											
17...	.58	3.5	16	.59	231	177	.24	96	41	246	13
JULY											
08...	2.5	6.3	28	1.0	265	242	.33	110	18	310	10
AUG.											
05...	1.6	4.9	22	.77	221	207	.28	120	36	305	7
SEP.											
16...	4.8	10	44	1.1	247	214	.29	94	5	325	2

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
09...	5	8.5	18000	210	88	9.3	0	.3	6.0	6.0	--
NOV.											
05...	4	10	4000	2400	150	15	0	.2	3.7	.3	4
DEC.											
10...	12	2.5	11000	8000	5300	7.4	0	.1	2.5	.0	--
JAN.											
14...	11	1.8	10000	2500	1100	6.3	1	.1	--	--	--
FEB.											
19...	8	8.2	7100	1500	520	6.0	0	.2	.0	.0	--
MAR.											
11...	5	7.0	18000	3000	290	7.7	0	.2	--	--	--
APR.											
15...	9	4.5	750	55	30	6.7	1	.1	.0	.0	--
MAY											
13...	6	4.5	9200	820	260	7.6	0	.1	9.0	.0	--
JUNE											
17...	4	8.6	20000	700	340	10	0	.1	2.3	.0	--
JULY											
08...	3	8.9	360000	1300	200	9.6	0	.2	32	.0	--
AUG.											
05...	5	9.8	12000	600	340	16	0	.2	19	.0	--
SEP.											
16...	4	14	2000	200	160	10	1	.1	5.7	.0	--

01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)
OCT. 09...	.0	0	2.0	.0	.5	.4	.0	.0	.0	.0	0

DATE	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
OCT. 09...	.0	.0	.0	.0	.0	.0	.0	56	0	1	100

DATE	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 09...	2.5	2300	2	4	71	110	70000	20	740	.2	83

RESERVOIRS IN THE QUINNIPIAC RIVER BASIN

01195800. WOLCOTT RESERVOIR.--Lat 41°36'35", long 72°56'08", New Haven County, Conn., on Roaring Brook in Eightmile River basin, 2.1 mi (3.4 km) northeast of Wolcott. Drainage area, 2.45 mi^2 (6.35 km^2). Completed in 1904 for storage of water for municipal supply of city of New Britain. Usable capacity, 22,700,000 ft^3 (643,000 m^3). Records available, September 1960 to current year. Records furnished by Board of Water Commissioners, New Britain, Conn.

01196225. BROAD BROOK RESERVOIR.--Lat 41°31'20", long 72°51'34", New Haven County, Conn., on Broad Brook in Quinnipiac River basin, 3 mi (5 km) southwest of Meriden. Drainage area, 4.85 mi^2 (12.56 km^2). Completed in 1907 for storage of water for municipal supply of city of Meriden. Usable capacity, 134,000,000 ft^3 (3,800,000 m^3). Records available, September 1970 to current year. Records furnished by Water Department, city of Meriden, Conn.

01196240. BRADLEY HUBBARD RESERVOIR.--Lat 41°33'24", long 72°45'47", New Haven County, Conn., on Harbor Brook in Quinnipiac River basin, 2 mi (3 km) northeast of Meriden. Drainage area, 0.59 mi^2 (1.53 km^2). Completed in 1894 and now used for storage of water for municipal supply of city of Meriden. Usable capacity, 22,500,000 ft^3 (637,000 m^3). Records available, September 1970 to current year. Records furnished by Water Department, city of Meriden, Conn.

Month-end usable contents, in millions of cubic feet, water year October 1974 to September 1975

Date	Wolcott Reservoir	Broad Brook Reservoir	Bradley Hubbard Reservoir
Sept. 30, 1974.....	7.9	126	20.5
Oct. 31.....	7.3	127	22.5
Nov. 30.....	8.6	134	22.5
Dec. 31.....	20.4	134	22.5
Jan. 31, 1975.....	22.7	134	22.5
Feb. 28.....	22.7	134	22.5
Mar. 31.....	22.7	134	22.5
Apr. 30.....	19.6	134	22.5
May 31.....	17.3	134	22.5
June 30.....	11.5	134	20.5
July 31.....	15.9	134	22.5
Aug. 31.....	10.1	130	20.7
Sept. 30.....	22.7	134	22.5

01196626 MILL RIVER AT HAMDEN, CONN.

LOCATION.--Lat 41°20'09", long 72°54'39", New Haven County, on left bank 300 ft (91.4 m) below dam on Whitney Lake off Whitney Avenue, 1,400 ft (427 m) north of New Haven city line, and 2.9 mi (4.7 km) upstream from mouth at New Haven Harbor.

DRAINAGE AREA.--36.4 mi^2 (94.3 km^2).

PERIOD OF RECORD.--Discharge: July 1974 to current year.
Chemical analyses: June 1974 to current year.
Water temperatures: June 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1.44 ft (0.439 m) below mean sea level.

EXTREMES.--Maximum discharge, 608 ft^3/s (17.2 m^3/s) Apr. 4, gage height, 5.42 ft (1.652 m); maximum gage height, 6.20 ft (1.890 m) Apr. 3; minimum discharge, 6.6 ft^3/s (0.19 m^3/s) Sept. 7, gage height, 2.62 ft (0.799 m).
Specific conductance: Maximum recorded, 283 micromhos Aug. 14; minimum recorded, 120 micromhos July 21.
Water temperatures: Maximum recorded, 31.5°C Aug. 2, 3; minimum, 1.0°C Dec. 4-7.

Period of record: Maximum discharge, 608 ft^3/s (17.2 m^3/s) Apr. 4, 1975, gage height, 5.42 ft (1.652 m): maximum gage height, 6.20 ft (1.890 m) Apr. 3, 1975; minimum discharge, 1.3 ft^3/s (0.037 m^3/s) many days in August 1974.
Specific conductance: Maximum recorded, 283 micromhos Aug. 14, 1975; minimum recorded 120 micromhos July 21, 1975.
Water temperatures: Maximum recorded, 34.0°C July 19, 1974; minimum, 1.0°C Dec. 4-7, 1974.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. This site is subject to occasional backwater from high tides. About 6 mgd (22,500 m^3/day) is diverted from Whitney Lake to New Haven for water supply. Whitney Lake has a usable capacity of 34,500,000 ft^3 (977,000 m^3).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	42	31	83	109	98	90	61	57	19	23	16
2	26	32	186	77	106	90	83	67	51	19	22	13
3	27	27	185	68	100	83	299	64	42	19	20	13
4	22	26	100	67	89	76	466	83	42	16	20	9.6
5	20	31	73	63	98	70	218	147	40	16	21	8.9
6	18	35	62	58	98	71	168	100	128	16	22	8.9
7	17	30	59	83	98	73	141	106	89	16	33	8.5
8	16	26	125	79	90	83	123	83	51	14	29	9.2
9	16	22	295	158	87	63	114	73	42	14	28	14
10	15	22	158	172	79	63	106	73	39	13	24	11
11	14	22	111	141	76	63	98	66	31	15	23	8.1
12	15	25	95	152	74	73	95	62	90	25	20	21
13	15	61	86	194	72	79	90	87	235	50	16	38
14	14	55	77	218	76	73	84	76	92	300	17	23
15	16	37	73	149	76	73	82	67	55	200	13	13
16	106	30	84	123	72	73	80	83	43	150	23	11
17	127	30	172	108	76	76	75	70	40	100	24	11
18	68	30	137	116	76	70	72	58	38	80	21	10
19	46	30	103	242	76	80	73	55	31	60	17	14
20	35	39	90	183	76	335	71	49	28	50	14	21
21	31	76	84	127	76	230	66	55	24	120	14	39
22	30	50	82	120	80	152	63	51	22	60	16	33
23	30	35	76	109	90	132	63	46	22	40	11	92
24	29	28	75	104	150	123	90	48	21	32	19	156
25	29	30	114	141	280	132	114	80	17	67	18	220
26	30	30	109	230	200	106	120	52	15	47	16	196
27	28	32	84	162	130	90	87	46	16	32	16	288
28	25	31	77	132	100	87	72	41	18	31	13	83
29	26	32	73	154	---	87	66	35	33	31	12	30
30	25	29	70	141	---	123	63	34	35	25	41	14
31	35	---	70	123	---	113	---	51	---	24	26	---
TOTAL	976	1025	3216	4077	2810	3140	3432	2069	1487	1701	632	1433.2
MEAN	31.5	34.2	104	132	100	101	114	66.7	49.6	54.9	20.4	47.8
MAX	127	76	295	242	280	335	466	147	235	300	41	288
MIN	14	22	31	58	72	63	63	34	15	13	11	8.1

WTR YR 1975 TOTAL 25998.2 MEAN 71.2 MAX 466 MIN 8.1

01196626 MILL RIVER AT HAMDEN, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	185	181	182	229	221	223	216	214	216	177	166	172
2	189	182	186	230	223	226	214	211	213	181	166	178
3	183	182	183	240	231	235	215	209	211	185	181	182
4	189	184	187	241	236	239	208	201	205	185	179	183
5	191	188	189	246	240	244	199	187	194	190	181	185
6	192	188	190	245	240	243	188	174	179	192	187	189
7	190	184	189	240	238	240	175	169	171	197	189	193
8	185	181	183	239	237	238	193	171	183	204	191	197
9	186	180	182	238	233	236	179	172	174	201	196	198
10	187	181	184	242	235	237	171	156	163	209	201	204
11	188	183	185	240	235	238	162	151	156	209	207	208
12	189	184	187	237	236	237	154	147	149	207	185	198
13	191	188	190	239	235	236	147	144	145	188	179	183
14	193	189	191	239	235	237	146	144	145	180	172	175
15	198	194	196	236	235	235	147	146	146	174	168	170
16	198	193	195	236	234	235	147	146	146	173	165	169
17	206	198	202	235	234	234	157	146	150	170	165	167
18	208	204	206	234	233	234	165	152	159	172	167	169
19	211	208	210	233	231	232	174	165	168	177	168	172
20	211	210	211	232	229	231	172	165	168	183	178	180
21	213	211	212	230	225	227	171	169	170	185	181	183
22	214	211	212	226	225	225	172	170	171	182	179	181
23	214	212	213	226	225	225	172	170	171	184	179	182
24	214	212	213	226	224	225	171	170	171	187	180	183
25	214	212	213	225	223	224	170	169	170	189	183	184
26	219	213	215	225	220	221	174	170	173	195	188	192
27	217	214	215	224	220	221	176	173	174	196	193	194
28	218	215	216	220	219	220	175	171	173	197	194	196
29	219	217	218	220	217	218	177	172	174	195	185	191
30	221	219	220	221	216	218	182	174	177	190	186	188
31	229	220	222	---	---	---	181	173	179	188	184	186
MONTH	229	180	200	246	216	231	216	144	172	209	165	185

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	188	182	185	205	195	199	188	182	184	185	181	185
2	186	183	185	198	196	197	186	182	184	185	183	184
3	186	183	185	197	194	196	186	183	184	187	182	185
4	188	185	187	197	194	195	183	149	169	187	187	187
5	190	188	188	198	193	195	147	132	137	187	184	185
6	191	188	190	198	194	196	132	129	130	192	184	187
7	193	191	192	200	196	198	129	126	128	192	187	189
8	195	191	194	200	198	199	129	125	127	189	186	188
9	208	195	199	203	199	201	133	127	130	188	185	186
10	212	205	209	206	199	202	135	130	133	186	181	183
11	231	212	219	204	200	202	140	133	137	185	181	183
12	238	228	233	207	204	205	149	139	143	185	182	183
13	236	229	233	206	204	205	156	147	152	184	181	183
14	240	233	237	207	205	205	156	151	153	186	183	184
15	241	234	239	212	205	208	161	152	158	186	184	185
16	243	236	240	227	210	219	164	159	163	189	184	186
17	246	238	243	228	217	221	169	161	165	188	185	186
18	247	242	245	261	226	237	170	165	167	189	186	187
19	255	245	250	268	235	248	172	166	170	191	187	189
20	266	254	259	267	252	260	177	169	172	193	189	191
21	272	261	266	262	232	247	178	174	176	193	189	192
22	271	268	270	238	205	219	177	173	175	193	191	192
23	270	264	267	201	194	198	181	175	177	197	192	194
24	264	256	259	195	186	189	185	177	180	202	194	197
25	270	250	258	191	183	185	187	181	184	197	195	196
26	250	233	240	186	181	184	203	186	189	199	196	197
27	233	205	221	187	184	185	192	184	189	202	198	199
28	203	199	200	187	183	185	191	189	190	203	197	200
29	---	---	---	183	182	183	191	188	190	201	198	200
30	---	---	---	183	181	182	190	184	187	201	189	199
31	---	---	---	183	181	182	---	---	---	202	199	200
MONTH	272	182	225	268	181	204	203	125	164	203	181	190

01196626 MILL RIVER AT HAMDEN, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	201	199	200	202	194	198	153	143	147	---	---	---
2	203	199	200	201	196	199	173	152	158	---	---	---
3	201	198	200	205	198	202	193	161	175	---	---	---
4	203	198	200	211	201	204	177	155	163	---	---	---
5	202	198	200	209	201	205	155	139	148	---	---	---
6	199	198	198	212	203	207	150	144	148	---	---	---
7	200	198	199	214	203	206	150	144	146	---	---	---
8	198	196	198	213	205	209	152	145	148	---	---	---
9	197	194	196	214	205	209	198	190	194	---	---	---
10	196	192	194	214	206	211	195	192	193	---	---	---
11	193	190	192	213	208	210	197	192	194	---	---	---
12	191	185	187	212	207	210	253	196	221	---	---	---
13	184	174	181	210	207	208	278	246	260	---	---	---
14	176	160	169	206	195	200	283	261	271	---	---	---
15	163	156	160	193	176	183	274	219	234	---	---	---
16	159	155	157	179	122	149	244	196	212	---	---	---
17	159	155	157	133	126	130	216	198	208	---	---	---
18	160	157	158	128	121	125	217	200	206	---	---	---
19	165	160	163	124	122	123	222	207	213	---	---	---
20	167	163	166	125	122	123	212	207	210	---	---	---
21	172	164	167	124	120	122	---	---	---	---	---	---
22	171	167	170	125	121	123	---	---	---	---	---	---
23	177	170	174	126	122	124	---	---	---	---	---	---
24	187	178	181	129	125	127	---	---	---	---	---	---
25	189	184	187	128	123	125	---	---	---	---	---	---
26	189	184	187	131	124	127	---	---	---	---	---	---
27	190	186	188	132	128	129	---	---	---	---	---	---
28	190	186	188	135	129	132	---	---	---	---	---	---
29	195	189	191	140	135	137	---	---	---	---	---	---
30	199	194	196	142	139	140	---	---	---	---	---	---
31	---	---	---	143	137	140	---	---	---	---	---	---
MONTH	203	155	183	214	120	166	---	---	---	---	---	---
YEAR	283	120	192									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	16.5	16.5	11.5	8.0	9.5	2.5	2.0	2.0	3.5	3.5	3.5
2	17.0	15.5	16.0	9.5	8.5	8.5	3.5	2.5	3.0	3.5	3.0	3.5
3	15.5	14.0	15.0	8.5	8.0	8.0	3.0	2.0	2.5	3.5	3.0	3.0
4	16.0	13.5	14.5	11.0	8.0	9.0	2.0	1.0	1.5	3.5	3.0	3.5
5	16.5	13.5	15.0	13.5	11.0	11.5	1.5	1.0	1.0	3.5	3.0	3.5
6	17.0	14.0	15.0	14.5	8.5	13.0	1.5	1.0	1.0	5.5	3.0	4.5
7	17.0	13.5	15.5	10.0	8.5	9.5	1.5	1.0	1.5	4.5	3.5	4.0
8	16.5	13.5	14.5	11.0	10.0	10.5	2.5	1.5	2.0	6.5	4.0	5.5
9	16.5	13.0	14.0	11.5	10.0	11.0	3.0	2.5	2.5	7.0	6.5	7.0
10	15.5	13.0	14.0	12.5	10.5	11.5	3.5	2.0	3.0	8.5	7.5	8.0
11	16.0	13.0	14.0	10.0	6.5	8.0	3.5	3.0	3.0	7.5	4.5	5.5
12	14.0	13.0	13.5	7.0	6.5	7.0	4.0	3.0	3.5	7.0	5.5	6.0
13	15.0	12.5	13.5	7.5	6.5	7.0	3.5	3.0	3.5	6.0	5.5	5.5
14	13.5	12.0	13.0	8.0	6.5	7.0	3.5	3.0	3.5	7.0	6.0	6.5
15	15.0	13.0	13.5	8.0	6.0	7.0	3.5	3.0	3.0	6.5	4.5	5.5
16	13.0	12.5	13.0	6.5	5.5	6.0	3.5	3.0	3.0	6.0	5.5	6.0
17	12.5	12.5	12.5	6.0	5.5	6.0	3.5	3.0	3.5	5.5	4.0	4.5
18	12.5	11.5	12.0	6.0	5.5	5.5	3.5	3.0	3.0	5.0	4.0	4.5
19	12.0	11.0	11.5	6.5	5.0	5.5	3.5	3.0	3.5	4.5	4.0	4.0
20	11.5	10.5	11.0	6.0	5.5	6.0	3.5	2.5	3.0	4.0	3.5	3.5
21	11.0	10.0	10.5	6.0	4.5	5.5	3.0	2.5	3.0	4.0	3.0	3.5
22	11.5	10.0	10.5	4.5	4.0	4.5	3.0	2.5	3.0	4.5	4.0	4.0
23	12.0	10.0	11.0	5.0	4.0	4.5	3.0	2.5	3.0	4.0	2.0	3.0
24	12.5	10.5	11.5	6.0	4.5	5.5	3.0	3.0	3.0	4.0	3.0	3.5
25	11.5	10.5	11.0	6.5	4.5	6.0	3.0	2.5	3.0	4.0	3.5	3.5
26	12.5	11.0	11.5	4.5	2.5	3.5	2.5	2.5	2.5	4.0	3.5	4.0
27	13.0	11.0	11.5	3.5	2.5	3.0	3.0	2.5	3.0	4.5	3.5	4.0
28	14.0	11.0	12.0	3.5	3.0	3.0	3.0	3.0	3.0	4.0	3.5	4.0
29	15.5	13.0	14.5	3.5	2.5	3.0	3.0	3.0	3.0	4.0	3.5	4.0
30	16.0	15.0	15.5	3.0	2.0	2.5	3.5	3.0	3.0	4.5	3.5	4.0
31	16.0	14.0	15.5	---	---	---	3.5	3.0	3.0	4.0	3.5	3.5
MONTH	17.0	10.0	13.5	14.5	2.0	7.0	4.0	1.0	2.5	8.5	2.0	4.5

01196626 MILL RIVER AT HAMDEN, CONN.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	3.5	4.0	5.0	4.5	5.0	7.0	6.5	6.5	16.0	15.5	16.0
2	5.0	4.0	4.5	6.0	4.5	5.5	7.5	6.5	7.0	16.0	15.5	15.5
3	4.5	4.0	4.5	5.0	4.5	4.5	7.5	7.0	7.0	16.0	15.5	16.0
4	4.5	4.0	4.5	5.5	4.5	5.0	8.0	7.0	7.5	16.0	16.0	16.0
5	4.5	4.0	4.5	5.5	4.5	5.0	7.0	6.5	7.0	16.0	15.5	16.0
6	4.5	4.0	4.5	6.0	5.0	5.5	6.5	6.5	6.5	17.0	15.5	16.0
7	5.0	4.0	4.5	6.0	5.5	5.5	6.5	6.0	6.0	17.5	16.0	16.5
8	5.0	4.5	5.0	6.0	4.5	5.5	6.5	6.0	6.5	17.5	16.0	16.5
9	5.5	4.0	4.5	5.0	3.5	4.5	7.5	6.5	7.0	17.5	16.5	17.0
10	5.0	4.0	4.5	5.0	4.0	4.5	8.0	7.0	7.5	19.0	17.5	18.0
11	4.5	4.0	4.0	5.0	4.0	4.5	8.5	7.5	8.0	19.5	18.5	19.0
12	3.5	3.5	3.5	5.0	5.0	5.0	9.5	8.0	8.5	20.0	19.0	19.5
13	4.0	3.5	4.0	5.5	5.0	5.0	9.5	8.5	9.0	22.0	20.0	20.5
14	4.0	3.5	4.0	5.0	4.5	4.5	10.0	8.5	9.0	21.5	20.5	21.0
15	4.0	3.5	3.5	5.5	4.5	4.5	10.0	9.5	9.5	21.5	20.5	21.0
16	3.5	2.5	3.0	7.0	4.5	6.0	10.5	9.5	10.0	22.5	20.5	21.5
17	3.5	2.5	3.0	5.5	4.5	5.5	11.5	9.5	10.5	22.0	21.0	21.5
18	3.0	2.5	3.0	5.5	4.5	5.0	11.0	10.5	11.0	22.0	21.0	21.5
19	3.5	3.0	3.5	6.0	5.5	5.5	11.0	11.0	11.0	22.5	21.0	21.5
20	4.0	3.5	3.5	7.0	6.0	6.5	12.0	11.0	11.5	23.5	21.5	22.5
21	4.0	3.5	4.0	8.0	6.5	7.5	12.0	11.0	11.5	24.5	22.5	23.5
22	4.5	4.0	4.0	8.0	7.5	8.0	12.5	11.0	11.5	24.0	23.0	23.5
23	4.5	4.0	4.5	9.0	7.5	8.0	12.5	11.5	12.0	24.5	22.5	23.5
24	4.5	4.5	4.5	8.5	8.0	8.0	13.5	12.5	13.0	25.5	23.5	25.0
25	4.5	4.5	4.5	9.0	8.0	8.5	15.0	13.5	14.0	24.5	22.0	23.5
26	5.0	4.5	5.0	8.5	7.5	8.0	16.0	13.5	14.5	22.0	21.5	22.0
27	6.0	4.5	5.5	7.5	7.0	7.5	18.5	13.5	16.0	25.0	21.5	23.0
28	5.5	5.0	5.0	8.0	6.5	7.0	21.0	17.5	20.0	24.5	22.0	23.5
29	---	---	---	7.0	7.0	7.0	20.5	17.0	18.5	24.5	22.0	22.5
30	---	---	---	7.5	7.0	7.0	17.0	15.5	16.0	22.5	21.5	22.0
31	---	---	---	7.5	6.5	7.0	---	---	---	22.5	22.0	22.5
MONTH	6.0	2.5	4.0	9.0	3.5	6.0	21.0	6.0	10.5	25.5	15.5	20.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	22.0	22.5	25.5	22.0	23.5	30.5	27.0	28.5	---	---	---
2	24.5	21.5	23.0	25.5	21.5	24.0	31.5	27.0	29.5	---	---	---
3	23.0	22.0	22.5	27.0	23.0	25.0	31.5	28.0	29.5	---	---	---
4	23.0	21.5	22.0	27.5	23.5	25.5	28.5	26.5	28.0	---	---	---
5	21.5	20.5	21.0	27.0	23.5	25.0	29.0	26.5	27.5	---	---	---
6	20.5	20.0	20.5	27.0	23.5	25.0	27.0	25.5	26.0	---	---	---
7	21.0	19.5	20.5	26.5	23.5	25.0	25.5	24.0	24.5	---	---	---
8	20.0	19.0	19.5	26.5	23.5	24.5	24.0	22.5	23.5	---	---	---
9	20.0	19.0	19.0	26.5	23.0	25.0	25.5	22.0	24.0	---	---	---
10	22.0	18.5	20.0	27.0	24.0	25.0	26.0	23.5	24.5	---	---	---
11	21.5	19.0	20.0	26.0	24.0	25.5	26.0	24.5	25.0	---	---	---
12	19.5	19.0	19.5	26.0	25.0	25.5	27.5	24.0	26.0	---	---	---
13	20.0	19.0	19.5	25.0	24.5	24.5	27.5	24.5	25.5	---	---	---
14	20.0	19.5	20.0	24.5	24.0	24.0	27.5	24.5	26.0	---	---	---
15	21.5	19.5	20.0	24.0	23.0	23.5	26.5	24.0	25.0	---	---	---
16	20.5	20.0	20.5	25.5	23.5	24.5	24.5	24.0	24.5	---	---	---
17	21.0	20.0	20.5	25.5	24.5	25.0	24.5	24.0	24.5	---	---	---
18	22.5	20.5	21.0	26.0	24.5	25.0	26.5	24.0	25.0	---	---	---
19	27.0	22.0	24.5	26.0	25.0	25.5	26.0	22.5	24.0	---	---	---
20	25.5	24.0	25.0	26.5	25.0	25.5	25.0	22.5	24.0	---	---	---
21	25.5	23.0	24.0	28.0	25.0	26.5	---	---	---	---	---	---
22	24.5	22.0	23.0	29.0	26.5	27.5	---	---	---	---	---	---
23	24.5	22.0	23.5	28.0	26.5	27.0	---	---	---	---	---	---
24	28.5	24.5	26.5	27.5	26.0	26.5	---	---	---	---	---	---
25	27.5	25.0	26.5	26.5	26.0	26.0	---	---	---	---	---	---
26	26.0	24.5	25.0	26.5	25.0	25.5	---	---	---	---	---	---
27	26.0	23.5	24.5	26.5	24.5	25.5	---	---	---	---	---	---
28	25.0	24.5	24.5	27.5	24.5	26.0	---	---	---	---	---	---
29	27.0	24.0	25.5	27.5	25.0	26.0	---	---	---	---	---	---
30	25.5	23.0	24.5	29.0	24.5	26.5	---	---	---	---	---	---
31	---	---	---	30.5	25.5	27.5	---	---	---	---	---	---
MONTH	28.5	18.5	22.5	30.5	21.5	25.5	---	---	---	---	---	---
YEAR	31.5	1.0	12.5									

01196656 NEW HAVEN HARBOR NEAR NEW HAVEN, CONN.

LOCATION.--Lat 41°16'11", long 72°54'44", New Haven County, in main channel between Sandy Point and Black Rock, 0.4 mi (0.6 km) west of coast guard station.

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH (FT)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.												
16...	1405	3.0	7.8	8.0	13.5	6.0	61	.5	40	150	60	30
NOV.												
05...	0850	3.0	7.7	13.5	12.5	5.5	60	1.2	50	240	70	30
DEC.												
10...	0920	3.0	7.7	.5	3.0	9.8	86	3.1	40	180	70	40
JAN.												
14...	1000	3.0	7.8	-3.0	3.0	10.0	87	2.2	40	570	110	30
FEB.												
19...	0900	3.0	7.7	2.0	2.0	11.9	100	3.0	40	90	60	30
MAR.												
11...	1030	3.0	8.0	3.0	2.0	10.9	95	1.8	40	100	50	20
APR.												
15...	1010	3.0	8.1	10.0	6.0	11.2	103	1.0	40	120	50	30
MAY												
13...	1000	3.0	7.7	20.0	14.0	9.1	102	1.4	40	90	70	30
JUNE												
17...	1000	3.0	7.7	20.0	17.0	6.3	77	.7	50	130	70	30
JULY												
08...	1005	3.0	8.0	25.0	20.0	7.9	101	.4	40	100	50	20
AUG.												
05...	0955	3.0	7.9	26.5	24.0	6.3	86	.8	50	90	110	30
SEP.												
16...	0940	3.0	7.8	18.0	18.0	7.8	96	.3	60	140	80	30

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
16...	270	940	112	0	92	2400	14000	.00	.07	.40	.52	.62
NOV.												
05...	300	1000	114	0	94	2100	15000	.00	.19	.31	.40	.45
DEC.												
10...	250	970	102	0	84	1700	12000	.00	.38	.42	.54	.72
JAN.												
14...	300	970	107	0	88	1800	14000	.02	.28	.20	.26	.36
FEB.												
19...	250	750	109	0	89	1700	13000	.00	.49	.53	.68	.65
MAR.												
11...	280	430	116	0	95	2000	14000	.00	.29	.21	.27	.49
APR.												
15...	280	850	109	0	89	1800	14000	.00	.23	.21	.27	1.1
MAY												
13...	260	1100	108	0	89	1700	12000	.00	.31	.29	.37	.89
JUNE												
17...	180	880	116	0	95	2000	14000	.00	.09	.23	.30	.51
JULY												
08...	260	850	121	0	99	2000	15000	.01	.00	.10	.13	.76
AUG.												
05...	310	920	97	0	80	1800	14000	.00	.24	.01	.01	.65
SEP.												
16...	290	990	123	0	101	2000	15000	.01	.05	.06	.08	.22

01196656 NEW HAVEN HARBOR NEAR NEW HAVEN, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DEPTH (FT)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	SALINITY (PPT)
OCT.												
16...	3.0	.22	.69	3.1	.21	29700	28600	38.9	4500	4500	30000	11
NOV.												
05...	3.0	.14	.64	2.8	.20	30000	28400	38.6	4900	4800	30000	25
DEC.												
10...	3.0	.30	1.1	4.9	.20	22300	22200	30.2	4600	4500	21000	25
JAN.												
14...	3.0	.16	.64	2.8	.15	27300	26200	35.6	4700	4700	25000	25
FEB.												
19...	3.0	.12	1.1	5.0	.29	23800	23800	32.4	3700	3600	21200	23
MAR.												
11...	3.0	.28	.78	3.5	.17	27000	27000	36.7	2500	2400	40800	27
APR.												
15...	3.0	.90	1.3	5.9	.16	26400	24700	33.6	4200	4100	34400	22
MAY												
13...	3.0	.60	1.2	5.3	.21	23900	22500	30.6	5200	5100	37800	25
JUNE												
17...	3.0	.28	.60	2.7	.31	29400	27900	37.9	4100	4000	40000	25
JULY												
08...	3.0	.66	.76	3.4	.16	32500	28900	39.3	4100	4100	39600	26
AUG.												
05...	3.0	.64	.89	3.9	.17	23600	27800	37.8	4600	4500	38000	25
SEP.												
16...	3.0	.16	.27	1.2	.16	30900	29000	39.4	4800	4700	36000	27

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.												
16...	4	2	2.8	B15000	B9500	25	5.6	0	.1	17	.0	--
NOV.												
05...	2	1	3.6	16000	6000	1000	3.7	0	.1	.0	.0	0
DEC.												
10...	10	3	3.3	14000	3000	1000	4.3	0	.1	3.7	.3	--
JAN.												
14...	3	4	2.7	10000	1500	430	9.6	0	.1	2.7	1.0	--
FEB.												
19...	6	7	3.5	28000	4700	6000	4.4	0	.1	--	--	--
MAR.												
11...	4	1	1.9	10000	700	820	4.4	0	.1	--	--	--
APR.												
15...	4	6	1.4	24000	980	620	8.1	1	.1	--	--	--
MAY												
13...	2	2	3.4	3400	260	65	3.3	0	.1	6.0	.0	--
JUNE												
17...	4	2	3.7	3200	270	44	6.7	0	.1	8.7	.0	--
JULY												
08...	3	3	1.9	9000	500	64	5.2	0	.1	13	.0	--
AUG.												
05...	3	3	2.0	76000	3900	130	19	0	1.5	14	.0	--
SEP.												
16...	1	1	3.1	100	5	4	6.0	0	.1	14	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01196656 NEW HAVEN HARBOR NEAR NEW HAVEN, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 16...	.0	13	2.8	1.2	.0	1.4	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 16...	0	0	.0	.0	.0	.0	.0	.0	.0	100	17	38

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 16...	100	.0	88800	6	2	97	120	11000	66	310	1.0	178

01198550 HOUSATONIC RIVER NEAR CANAAN, CONN.

LOCATION.--Lat 42°00'17", long 73°21'27", Litchfield County, at bridge on U.S. Highway 44, 2 mi (3 km) southwest of Canaan.

DRAINAGE AREA.--586 mi^2 (1,518 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
21...	1230	687	7.6	2.5	4.5	12.3	95	4.2	10	210	30	20
NOV.												
11...	1200	874	7.8	13.5	6.0	6.7	68	4.0	10	170	50	10
DEC.												
03...	1245	1600	7.8	1.5	.5	13.6	96	3.9	0	80	20	10
JAN.												
07...	1055	682	7.7	4.5	.5	13.6	93	4.3	10	120	70	140
FEB.												
04...	1035	1240	7.2	-5.0	1.0	16.2	114	4.3	0	80	50	10
MAR.												
04...	1040	1550	7.7	-2.5	1.0	14.1	99	7.9	0	50	40	0
APR.												
07...	1040	3190	7.7	3.0	4.0	13.8	105	3.6	10	50	10	20
MAY												
05...	1000	1540	7.6	13.0	10.5	11.2	100	2.9	0	60	40	10
JUNE												
09...	1025	1780	7.4	18.0	14.5	9.7	99	3.7	0	110	30	60
JULY												
14...	1100	1810	7.3	23.5	21.0	8.8	98	3.6	10	130	20	10
AUG.												
18...	0940	950	7.5	22.5	19.5	7.7	84	4.5	0	60	30	0
SEP.												
02...	1015	900	7.4	16.5	17.0	8.7	85	4.1	0	70	10	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
21...	29	15	117	0	96	22	55	.01	.28	.22	.28	.38
NOV.												
11...	29	11	122	0	100	14	9.4	.01	.31	.17	.22	.36
DEC.												
03...	25	9.2	104	0	85	12	12	.01	.45	.14	.18	.37
JAN.												
07...	31	11	133	0	109	15	19	.01	.80	.30	.39	.36
FEB.												
04...	30	11	117	0	96	14	14	.00	.49	.10	.13	1.5
MAR.												
04...	27	8.5	109	0	89	11	14	.01	.44	.13	.17	.32
APR.												
07...	22	6.9	79	0	65	12	8.4	.00	.32	.06	.08	.27
MAY												
05...	23	8.7	98	0	80	12	11	.01	.29	.01	.01	.42
JUNE												
09...	23	7.3	99	0	81	7.9	9.0	.01	.33	.05	.06	.45
JULY												
14...	19	6.9	84	0	69	8.2	9.0	.00	.40	.04	.05	.75
AUG.												
18...	33	11	134	0	110	11	14	.01	.40	.09	.12	.38
SEP.												
02...	26	10	109	0	89	9.6	8.4	.01	.74	.04	.05	.41

01198550 HOUSATONIC RIVER NEAR CANAAN, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
21...	.16	.66	2.9	.09	167	228	423	.31	130	38	235	20
NOV.												
11...	.19	.67	3.0	.10	152	160	378	.22	120	18	225	20
DEC.												
03...	.23	.82	3.6	.07	144	128	553	.17	100	15	235	9
JAN.												
07...	.06	1.2	5.1	.12	185	152	280	.21	120	14	300	3
FEB.												
04...	1.4	2.0	8.8	.10	153	148	496	.20	120	24	260	10
MAR.												
04...	.19	.76	3.4	.07	151	145	607	.20	100	13	235	10
APR.												
07...	.21	.59	2.6	.06	164	130	1120	.18	83	19	170	7
MAY												
05...	.41	.71	3.1	.09	147	137	570	.19	93	13	202	10
JUNE												
09...	.40	.78	3.5	.12	150	137	658	.19	88	6	190	18
JULY												
14...	.71	1.2	5.1	.17	136	112	547	.15	76	7	170	12
AUG.												
18...	.29	.78	3.5	.06	169	164	421	.22	130	18	235	6
SEP.												
02...	.37	1.2	5.1	.05	146	87	211	.12	110	17	155	2

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
21...	1	4.7	1200	1000	120	9.0	0	.0	1.0	.0	--
NOV.											
11...	2	3.1	420	220	110	7.3	0	.0	5.3	1.0	--
DEC.											
03...	2	2.6	2300	1000	210	6.4	0	.0	2.3	.0	1
JAN.											
07...	2	4.2	150	110	96	3.8	0	.0	2.0	1.0	--
FEB.											
04...	2	12	180	140	110	5.0	0	.1	.0	.0	--
MAR.											
04...	2	3.5	400	130	300	14	0	.1	.0	.0	--
APR.											
07...	5	2.5	140	100	580	4.9	0	.0	.0	.0	--
MAY											
05...	2	3.9	480	400	100	5.6	0	.0	5.0	.0	--
JUNE											
09...	5	6.3	3900	840	140	4.8	0	.0	1.3	.0	--
JULY											
14...	3	6.7	22000	3100	17000	4.4	0	.0	15	.0	--
AUG.											
18...	2	6.8	2400	180	85	4.4	0	.0	.0	.0	--
SEP.											
02...	1	6.9	4000	260	40	5.9	0	.0	.0	.0	--

01198550 HOUSATONIC RIVER NEAR CANAAN, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (1G/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)
OCT. 21...	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 21...	0	0	.0	.0	.0	.0	.0	.0	.0	130	1	3

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 21...	100	1.2	26100	4	1	3	6	2600	9	190	.1	33

01198990 FALLS VILLAGE RESERVOIR AT FALLS VILLAGE, CONN.

LOCATION.--Lat 41°57'45", long 73°22'18", Litchfield County, on Housatonic River at Great Falls, 0.4 mi (0.6 km) upstream from hydroelectric plant of Hartford Electric Light Company and gaging station at Falls Village.

DRAINAGE AREA.--629 mi^2 (1,629 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1921, October 1955 to September 1956, September 1957, October 1958, September 1959, April 1960, January 1963.
Water temperatures: October 1955 to current year.

EXTREMES.--Current year: Water temperatures: Maximum, 24.0°C July 9, Aug. 3-5; minimum, freezing point on many days during winter months.

Period of record: Water temperatures: Maximum, 27.0°C June 20, 1957; minimum, freezing point on many days during winter months.

REMARKS.--Records furnished by the Hartford Electric Light Company.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	10.0	2.0	1.0	0.0	1.5	2.5	10.0	20.0	20.5	22.5	18.0
2	12.0	10.0	2.0	1.0	0.0	1.5	3.5	10.5	19.5	20.5	24.5	17.0
3	11.0	10.0	1.0	0.0	0.0	1.5	5.0	10.0	19.5	21.5	25.0	17.0
4	9.0	11.0	0.5	0.0	0.0	1.0	3.0	10.0	18.0	22.5	25.0	17.0
5	9.0	12.0	0.0	0.0	0.0	0.0	3.0	10.0	17.0	23.0	25.0	16.5
6	10.0	10.0	0.0	0.0	0.0	1.0	2.0	11.0	15.0	23.5	24.0	16.5
7	11.0	10.0	3.0	0.0	0.0	1.0	2.0	11.0	14.5	23.5	22.5	17.0
8	11.0	9.0	3.0	0.0	0.0	1.0	2.0	12.0	14.0	24.5	20.0	18.0
9	10.0	9.0	2.0	0.0	0.0	0.0	3.0	13.0	14.0	25.0	20.0	18.0
10	10.0	8.0	2.0	1.0	0.0	0.0	3.5	14.0	15.0	24.0	20.0	17.0
11	10.0	7.0	2.0	1.0	0.0	0.0	5.0	14.0	15.0	24.5	20.0	16.0
12	11.0	7.0	2.0	2.0	0.0	1.0	5.0	14.5	16.0	24.0	20.5	15.0
13	11.0	8.0	3.0	2.0	0.0	2.0	5.0	15.0	15.5	23.0	21.0	15.0
14	11.0	8.0	3.0	1.0	0.0	3.0	5.0	15.0	16.0	21.5	21.5	14.0
15	12.0	7.0	2.0	0.0	0.0	3.0	6.0	15.5	17.0	20.5	20.5	14.0
16	11.0	6.0	2.0	0.0	0.0	3.0	---	16.0	17.0	20.5	20.5	13.0
17	10.0	5.0	2.0	0.0	0.0	2.5	7.0	16.0	18.0	22.0	20.0	13.0
18	10.0	5.0	2.0	0.0	0.0	4.0	8.5	16.5	19.5	24.0	20.0	14.0
19	9.0	5.0	2.0	0.0	0.0	5.0	8.0	16.5	20.0	23.0	19.5	14.5
20	8.0	5.0	2.0	0.0	0.0	5.5	7.5	17.5	20.0	22.0	19.0	15.0
21	5.0	4.0	2.0	0.0	0.0	3.0	7.5	19.0	20.0	21.5	18.5	15.5
22	5.0	2.0	2.0	0.0	0.0	3.5	6.5	20.0	20.0	21.5	19.0	16.0
23	5.0	2.5	2.0	0.0	1.0	4.0	7.0	20.0	20.5	22.0	19.0	17.0
24	6.0	3.0	2.0	0.0	3.0	4.0	9.0	20.0	22.0	22.0	19.0	16.0
25	6.0	4.0	1.5	0.0	3.0	4.0	8.0	20.0	22.5	23.0	19.0	14.0
26	6.0	5.0	1.0	0.0	2.0	4.0	8.0	19.0	22.5	22.0	20.0	14.0
27	6.0	3.0	1.0	0.0	2.0	2.5	8.0	18.5	22.0	21.0	20.0	14.0
28	6.0	2.0	1.0	0.5	3.0	2.5	8.0	19.0	22.0	20.0	20.0	14.0
29	6.0	2.0	1.0	1.0	---	2.5	8.0	19.0	21.5	20.0	20.0	14.0
30	7.0	2.0	1.0	2.0	---	2.5	9.0	20.0	21.0	20.0	20.0	13.5
31	9.0	---	0.0	0.0	---	2.5	---	20.0	---	21.0	20.0	---
MONTH	9.0	6.5	1.5	0.5	0.5	2.5	5.5	15.5	18.5	22.0	21.0	15.5
YEAR	MAX	25.0	MIN	0.0	MEAN	10.0						

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CONN.

LOCATION.--Lat 41°57'26", long 73°22'11", Litchfield County, on left bank at hydroelectric plant of Hartford Electric Light Company at Falls Village, 1.4 mi (2.3 km) downstream from Hollenbeck River, and at mile 75.9 (122.1 km).

DRAINAGE AREA.--634 mi^2 (1,642 km^2).

PERIOD OF RECORD.--Discharge: July 1912 to current year.
Chemical analyses: October 1954, April 1955, October 1970 to current year.
Water temperatures: November 1974 to September 1975.

GAGE.--Water-stage recorder. Datum of gage is 529.06 ft (161.257 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 26, 1964, at site 0.6 mi (1.0 km) downstream at datum 6.72 ft (2.048 m) lower.

AVERAGE DISCHARGE.--63 years, 1,072 ft^3/s (30.36 m^3/s), 22.94 in/yr (583 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6.290 ft^3/s (178 m^3/s) Sept. 28, gage height, 7.68 ft (2.341 m); minimum, 86 ft^3/s (2.44 m^3/s) Oct. 13, 24; minimum daily, 400 ft^3/s (11.3 m^3/s) July 8-11.
Specific conductance: Maximum, 363 micromhos Feb. 23; minimum, 123 micromhos Sept. 27.
Water temperatures: Maximum, 26.5°C Aug. 3; minimum, freezing point on many days during January and February.

Period of record: Maximum discharge, 23,900 ft^3/s (677 m^3/s) Jan. 1, 1949, gage height, 19.4 ft (5.91 m), present datum, from floodmark; practically no flow at times when power plant was shut down; minimum daily, 24 ft^3/s (0.68 m^3/s) Oct. 15, 1914, Sept. 18, 1932.
Specific conductance (1974-75): Maximum, 363 micromhos Feb. 23, 1975; minimum 123 micromhos Sept. 27, 1975.
Water temperatures: Maximum, 26.5°C Aug. 3, 1975; minimum, freezing point on many days during January and February 1975.

PEAK DISCHARGE.--(BASE, 3,600 ft^3/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
02-26	1330	6.54	4,810	06-14	1630	6.28	4,470
03-21	0400	6.56	4,840	07-15	1430	5.90	3,980
04-04	1530	6.49	4,750	07-22	0330	6.07	4,200
				09-28	1830	7.68	6,290

REMARKS.--Records excellent except for periods of faulty gage-height record June 23 to Aug. 13, which are good. Low flow completely regulated by power plant of Hartford Electric Light Company.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1380	973	1120	864	1190	2690	2210	1210	829	700	805	1300
2	1180	895	1110	787	1120	2230	2000	1160	897	600	780	993
3	1130	811	1510	715	1120	1950	2410	1270	867	550	760	735
4	934	841	1570	751	906	1660	4490	1280	1140	520	750	675
5	816	861	1130	658	913	1560	4470	1730	1600	500	760	609
6	703	1370	1120	659	839	1490	4020	1690	1830	450	780	584
7	674	1450	1120	599	1120	1410	3360	1860	2300	450	900	639
8	688	1270	1320	701	808	1510	2740	1760	2200	400	1350	604
9	571	1160	2820	827	880	1420	2360	1480	1930	400	3050	602
10	568	1090	2910	1120	775	1310	2180	1260	1660	400	3320	540
11	558	959	2470	1180	730	1270	2090	1140	1290	400	2970	490
12	585	916	1750	2330	690	1210	2010	1420	1450	415	2340	460
13	595	1010	1570	2870	662	1240	1940	2270	3200	890	1890	500
14	568	1150	1770	2540	713	1430	1840	3140	4360	2420	1690	500
15	491	1350	1570	2270	698	1230	1770	2940	4240	3800	1320	500
16	783	1290	1160	2000	742	1150	1730	2470	3690	3380	1150	450
17	1150	1160	1430	1600	680	1150	1680	2130	2760	2500	1030	420
18	1490	1140	1570	1400	744	1250	1720	1880	2070	1950	996	420
19	1260	1030	1240	1690	723	1410	1770	1670	1780	1360	785	450
20	1140	952	1120	1570	858	3300	1980	1370	1530	1410	725	480
21	880	1180	1120	1340	879	4760	2040	1330	1300	3210	683	420
22	825	2250	1120	1120	900	4460	1870	1290	1050	4030	666	565
23	777	2270	1120	1120	1000	4020	1740	517	950	3080	630	590
24	734	1670	1120	1120	2180	3380	1490	1110	850	2060	591	910
25	720	1570	1120	1120	4400	3210	1660	1050	800	2030	621	3150
26	769	1560	911	1900	4610	3130	1750	934	720	2580	609	4710
27	767	1130	965	1940	4190	2830	1610	791	645	2340	635	5670
28	639	1120	855	1570	3440	2450	1500	880	610	1910	489	5550
29	668	1260	794	1570	---	2150	1350	855	700	1570	594	4530
30	627	1120	903	1570	---	2140	1280	767	700	1220	1080	3450
31	760	---	780	1570	---	2350	---	761	---	920	1390	---
TOTAL	25430	36808	42188	43071	38510	66750	65060	45415	49948	48445	36139	41496
MEAN	820	1227	1361	1389	1375	2153	2169	1465	1665	1563	1166	1383
MAX	1490	2270	2910	2870	4610	4760	4490	3140	4360	4030	3320	5670
MIN	491	811	780	599	662	1150	1280	517	610	400	489	420
CFSM	1.29	1.94	2.15	2.19	2.17	3.40	3.42	2.31	2.63	2.47	1.84	2.18
IN.	1.49	2.16	2.48	2.53	2.26	3.92	3.82	2.66	2.93	2.84	2.12	2.43

CAL YR 1974 TOTAL 476563 MEAN 1306 MAX 4020 MIN 62 CFSM 2.06 IN 27.96
WTR YR 1975 TOTAL 539260 MEAN 1477 MAX 5670 MIN 400 CFSM 2.33 IN 31.64

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	253	249	250	---	---	---
2	---	---	---	---	---	---	254	236	248	---	---	---
3	---	---	---	---	---	---	234	223	226	---	---	---
4	---	---	---	---	---	---	255	225	243	---	---	---
5	---	---	---	---	---	---	274	241	256	---	---	---
6	---	---	---	---	---	---	260	250	253	---	---	---
7	---	---	---	---	---	---	261	255	259	---	---	---
8	---	---	---	---	---	---	261	228	253	---	---	---
9	---	---	---	---	---	---	216	179	188	---	---	---
10	---	---	---	---	---	---	194	181	189	---	---	---
11	---	---	---	---	---	---	181	174	177	---	---	---
12	---	---	---	---	---	---	201	182	192	---	---	---
13	---	---	---	---	---	---	215	202	209	---	---	---
14	---	---	---	---	---	---	226	214	221	---	---	---
15	---	---	---	---	---	---	241	226	234	---	---	---
16	---	---	---	---	---	---	237	235	236	---	---	---
17	---	---	---	---	---	---	236	234	236	---	---	---
18	---	---	---	---	---	---	244	233	237	---	---	---
19	---	---	---	---	---	---	246	242	243	---	---	---
20	---	---	---	255	248	253	294	243	269	---	---	---
21	---	---	---	256	220	245	286	256	266	255	253	254
22	---	---	---	218	197	207	256	254	255	287	253	273
23	---	---	---	209	191	199	256	253	255	275	268	273
24	---	---	---	205	192	198	261	255	258	271	266	268
25	---	---	---	215	205	211	---	---	---	267	256	264
26	---	---	---	221	216	219	---	---	---	256	207	223
27	---	---	---	230	222	227	---	---	---	228	208	221
28	---	---	---	232	228	230	---	---	---	251	223	239
29	---	---	---	242	232	237	---	---	---	237	230	233
30	---	---	---	249	242	244	---	---	---	233	227	231
31	---	---	---	---	---	---	---	---	---	255	234	246
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	288	243	267	203	191	197	206	200	203	240	230	234
2	268	250	257	215	203	209	216	205	207	247	241	244
3	253	249	251	224	215	218	217	175	205	247	236	241
4	261	253	257	231	225	228	172	145	154	243	239	240
5	269	261	267	237	231	236	154	152	153	239	214	222
6	270	263	266	244	238	241	172	152	162	218	213	216
7	273	262	264	257	244	249	196	173	184	214	200	208
8	276	272	275	255	243	248	212	196	204	211	199	204
9	275	268	273	254	243	246	215	212	213	225	211	217
10	321	272	299	254	250	251	220	214	217	234	224	228
11	313	290	302	267	251	261	228	219	224	236	222	228
12	313	294	301	262	257	260	232	218	227	225	222	224
13	293	280	284	255	249	252	230	222	224	224	177	203
14	285	278	282	258	245	250	234	224	228	196	184	192
15	286	281	284	258	248	253	227	225	226	184	179	181
16	285	281	283	262	252	258	229	228	229	199	185	192
17	284	278	281	276	256	263	232	226	229	215	199	206
18	295	286	291	274	250	261	228	219	223	222	215	218
19	299	289	294	290	253	269	220	201	210	228	222	225
20	332	302	315	254	155	196	209	184	200	237	228	231
21	352	318	334	156	142	148	191	171	183	243	232	237
22	362	338	352	157	139	146	182	170	176	244	241	243
23	363	328	344	153	140	147	212	178	181	246	237	241
24	323	182	256	169	153	163	218	213	215	251	234	242
25	180	166	172	171	162	166	219	216	217	258	251	254
26	172	166	169	177	168	173	219	216	217	261	252	256
27	175	166	171	177	168	172	218	211	215	261	256	258
28	191	176	183	188	174	180	218	213	215	263	253	259
29	---	---	---	203	187	193	218	215	217	263	253	256
30	---	---	---	206	193	201	232	218	224	267	260	263
31	---	---	---	207	192	200	---	---	---	268	261	265
MONTH	363	166	271	290	139	217	234	145	206	268	177	230

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	273	256	263	285	274	279	259	239	247	268	213	241
2	266	255	260	288	280	284	271	257	262	222	203	210
3	269	256	261	291	283	287	275	264	270	237	222	228
4	268	235	256	292	274	284	280	273	276	253	238	244
5	235	222	230	295	276	286	283	268	277	268	254	260
6	221	186	203	287	277	283	284	278	281	280	269	274
7	196	185	190	285	273	279	286	279	282	294	281	285
8	193	179	185	293	272	283	281	229	256	294	284	287
9	191	178	185	296	286	292	225	172	187	304	292	297
10	207	191	198	299	289	293	170	154	160	307	294	301
11	236	225	229	302	283	293	172	154	162	305	300	302
12	242	225	237	302	286	293	185	173	179	309	297	302
13	222	169	188	295	235	280	215	187	192	311	298	306
14	172	162	167	227	159	190	224	213	219	300	292	298
15	171	164	167	174	140	155	239	222	228	308	298	302
16	188	169	178	169	157	164	255	240	246	305	301	303
17	208	189	199	191	133	178	260	254	256	304	293	299
18	225	209	216	211	192	200	270	262	266	303	296	299
19	236	224	229	228	211	217	277	268	273	302	296	299
20	249	237	242	227	214	222	286	279	283	310	295	301
21	256	247	250	212	151	170	293	287	290	311	302	306
22	262	254	258	168	143	156	296	290	293	317	305	311
23	266	261	264	181	167	172	297	291	294	315	308	312
24	273	264	268	206	180	192	306	299	301	312	239	286
25	275	246	273	204	175	200	314	305	310	235	159	182
26	259	252	255	194	157	179	310	306	308	163	151	157
27	267	255	260	193	180	185	319	309	313	151	123	134
28	271	263	268	200	187	191	322	310	316	149	127	139
29	274	269	272	218	201	208	319	313	316	166	150	156
30	280	269	273	229	216	220	318	250	298	196	168	182
31	---	---	---	236	221	229	266	237	247	---	---	---
MONTH	280	162	231	302	133	230	322	154	261	317	123	260
YEAR	363	123	238									

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1.5	1.0	1.0	---	---	---
2	---	---	---	---	---	---	1.0	0.5	0.5	---	---	---
3	---	---	---	---	---	---	1.0	0.5	1.0	---	---	---
4	---	---	---	---	---	---	1.0	0.5	1.0	---	---	---
5	---	---	---	---	---	---	0.5	0.0	0.5	---	---	---
6	---	---	---	---	---	---	0.5	0.0	0.5	---	---	---
7	---	---	---	---	---	---	0.5	0.5	0.5	---	---	---
8	---	---	---	---	---	---	3.5	0.5	1.5	---	---	---
9	---	---	---	---	---	---	3.5	3.0	3.5	---	---	---
10	---	---	---	---	---	---	3.0	2.5	2.5	---	---	---
11	---	---	---	---	---	---	2.5	2.0	2.0	---	---	---
12	---	---	---	---	---	---	2.5	2.0	2.0	---	---	---
13	---	---	---	---	---	---	3.0	2.5	2.5	---	---	---
14	---	---	---	---	---	---	3.5	3.0	3.0	---	---	---
15	---	---	---	---	---	---	3.5	3.0	3.5	---	---	---
16	---	---	---	---	---	---	3.5	2.0	3.0	---	---	---
17	---	---	---	---	---	---	2.5	2.0	2.5	---	---	---
18	---	---	---	---	---	---	2.5	2.0	2.5	---	---	---
19	---	---	---	---	---	---	2.5	1.5	2.0	---	---	---
20	---	---	---	6.0	5.5	5.5	2.5	1.5	1.5	---	---	---
21	---	---	---	6.5	6.0	6.5	2.5	2.0	2.5	0.0	0.0	0.0
22	---	---	---	6.0	3.5	5.0	3.0	2.5	2.5	0.0	0.0	0.0
23	---	---	---	3.5	2.5	3.0	3.0	2.0	2.5	0.5	0.0	0.0
24	---	---	---	3.0	2.5	2.5	2.5	2.0	2.0	0.5	0.0	0.0
25	---	---	---	3.5	3.0	3.5	---	---	---	0.0	0.0	0.0
26	---	---	---	3.5	2.5	3.0	---	---	---	1.0	0.0	0.5
27	---	---	---	2.0	1.0	1.5	---	---	---	1.0	0.5	0.5
28	---	---	---	1.0	0.5	1.0	---	---	---	1.0	0.5	0.5
29	---	---	---	1.5	1.0	1.5	---	---	---	1.5	0.5	1.0
30	---	---	---	1.5	1.5	1.5	---	---	---	1.5	1.0	1.5
31	---	---	---	---	---	---	---	---	---	1.0	0.5	0.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CONN.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.5	2.5	2.0	2.0	4.0	2.5	3.5	12.0	11.0	11.5
2	0.5	0.0	0.5	2.5	2.0	2.0	5.0	4.0	4.5	11.5	11.0	11.5
3	0.5	0.0	0.0	2.0	1.0	1.5	5.0	4.0	5.0	12.0	10.5	11.0
4	0.0	0.0	0.0	1.5	1.0	1.0	4.0	2.0	3.0	12.0	11.5	12.0
5	0.0	0.0	0.0	1.5	0.5	1.0	2.0	1.5	1.5	11.5	10.5	11.0
6	0.0	0.0	0.0	2.0	1.0	1.5	2.0	1.5	1.5	12.0	11.0	11.5
7	0.0	0.0	0.0	2.5	1.5	2.0	3.0	2.0	2.5	13.0	11.5	12.5
8	0.5	0.0	0.0	3.0	2.5	2.5	3.0	2.5	3.0	14.5	13.0	13.5
9	0.0	0.0	0.0	2.5	1.0	1.5	4.0	3.0	3.5	15.0	13.5	14.5
10	0.0	0.0	0.0	1.0	0.0	0.5	5.5	4.0	4.5	15.5	14.0	14.5
11	0.0	0.0	0.0	1.5	0.5	1.0	6.5	5.0	6.0	15.0	14.0	14.5
12	0.0	0.0	0.0	2.5	1.5	2.0	7.0	6.0	6.5	15.0	14.5	15.0
13	0.0	0.0	0.0	3.5	2.5	3.0	6.5	5.5	6.5	15.0	14.5	15.0
14	0.0	0.0	0.0	3.0	2.0	2.5	6.5	5.5	6.0	16.0	15.0	15.5
15	0.0	0.0	0.0	2.5	1.5	2.0	7.0	6.0	6.5	16.5	15.5	16.0
16	0.5	0.0	0.0	3.0	1.5	2.0	8.0	6.0	7.0	17.5	16.5	17.0
17	0.5	0.0	0.0	4.5	2.5	3.5	9.5	7.5	8.5	18.0	16.5	17.5
18	0.0	0.0	0.0	5.0	4.0	4.5	9.5	9.0	9.0	17.5	17.0	17.5
19	0.0	0.0	0.0	6.0	4.5	5.5	9.5	9.0	9.5	19.0	17.0	18.0
20	0.5	0.0	0.5	6.0	4.0	5.0	9.5	8.5	9.0	20.5	18.0	19.5
21	2.5	0.5	1.5	4.0	3.0	3.5	8.5	7.5	8.0	21.0	19.5	20.5
22	3.0	2.0	2.5	3.5	3.0	3.5	8.0	7.0	7.5	20.5	20.0	20.5
23	3.0	2.5	3.0	5.0	3.5	4.0	9.5	7.5	8.0	22.5	21.0	21.5
24	3.0	1.5	2.5	5.0	4.0	4.5	10.5	9.0	10.0	23.5	21.0	22.5
25	2.0	1.5	1.5	5.5	4.0	4.5	11.0	10.0	10.5	23.0	21.0	22.0
26	2.0	1.5	1.5	5.0	4.0	5.0	12.0	11.0	11.5	20.5	19.0	19.5
27	2.0	1.0	1.5	3.5	2.5	3.0	11.0	9.5	10.5	19.5	19.0	19.5
28	2.0	1.5	2.0	2.5	1.5	2.0	9.5	9.0	9.5	20.0	19.0	19.5
29	---	---	---	2.5	2.0	2.5	10.5	9.0	10.0	20.0	19.5	19.5
30	---	---	---	3.0	2.5	3.0	12.0	9.5	11.0	20.0	19.0	19.5
31	---	---	---	3.0	2.5	3.0	---	---	---	19.5	19.0	19.0
MONTH	3.0	0.0	0.5	6.0	0.0	2.5	12.0	1.5	7.0	23.5	10.5	16.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	18.5	19.0	23.0	21.0	22.0	24.5	23.0	24.0	19.5	18.5	19.0
2	20.0	19.5	19.5	23.0	21.5	22.0	25.5	24.0	24.5	19.0	18.0	18.5
3	19.5	19.0	19.5	24.0	22.0	23.0	26.5	25.0	26.0	19.0	18.0	18.5
4	19.0	18.5	18.5	25.0	23.0	24.0	26.0	25.0	25.5	19.5	17.5	18.5
5	18.5	15.5	16.5	24.5	23.5	24.0	25.5	24.5	25.0	19.5	18.0	19.0
6	15.5	14.5	15.0	25.0	24.0	24.5	25.0	23.5	24.5	20.0	19.0	19.5
7	15.0	14.5	14.5	25.0	24.5	25.0	23.5	20.0	21.5	20.5	19.0	19.5
8	14.5	14.0	14.5	25.0	25.0	25.0	20.0	18.5	19.0	20.0	19.5	19.5
9	15.0	14.0	14.5	25.0	25.0	25.0	18.5	17.0	18.0	20.0	19.0	19.5
10	16.0	14.5	15.0	25.5	24.5	25.0	19.5	18.0	19.0	19.5	18.0	19.0
11	18.0	15.5	16.5	25.0	25.0	25.0	20.5	19.5	20.0	18.0	17.0	17.5
12	17.5	16.5	17.0	25.0	24.5	24.5	21.5	20.5	21.0	18.0	17.0	17.5
13	16.5	15.5	16.0	24.5	21.5	23.5	23.5	21.0	21.0	17.5	16.5	17.0
14	18.0	16.0	17.0	21.5	20.5	21.0	24.5	22.5	23.5	16.5	15.5	16.0
15	18.5	18.0	18.0	21.0	20.5	20.5	24.5	22.5	23.5	16.0	15.0	15.5
16	18.5	17.5	18.0	22.5	21.0	21.5	23.0	22.0	22.5	15.5	14.5	15.0
17	19.0	17.5	18.0	24.0	22.5	23.0	22.0	21.0	21.0	16.0	14.5	15.0
18	20.0	19.0	19.5	25.0	23.5	24.5	22.0	20.5	21.0	16.0	15.0	15.5
19	21.0	20.0	20.5	25.0	24.0	24.5	21.5	20.5	21.0	16.0	15.5	16.0
20	22.0	20.5	21.0	24.5	23.5	24.0	21.5	20.5	21.0	17.0	16.0	16.5
21	21.5	20.0	21.0	23.0	21.5	22.0	21.0	20.0	20.5	18.5	17.0	17.5
22	21.5	20.0	21.0	22.5	21.5	22.0	21.5	20.5	21.0	19.0	17.5	18.0
23	22.5	20.5	21.5	22.5	22.0	22.5	22.0	20.0	21.0	18.5	17.5	18.0
24	24.0	22.5	23.0	24.0	22.5	23.0	21.0	20.0	20.5	17.5	15.5	16.5
25	24.5	23.5	24.0	23.5	22.0	23.0	21.0	20.0	20.5	15.5	14.5	14.5
26	24.0	23.5	24.0	21.5	21.0	21.0	21.0	20.5	20.5	14.5	14.0	14.5
27	23.5	22.5	23.0	21.0	20.5	20.5	22.5	21.0	21.5	16.0	14.5	15.5
28	22.5	22.0	22.5	21.5	20.5	21.0	23.0	21.0	22.0	16.0	15.0	15.5
29	22.5	22.0	22.0	22.5	21.0	21.5	22.5	21.5	22.0	15.5	14.5	15.0
30	22.5	21.5	22.0	22.5	20.5	21.5	21.5	20.0	21.0	15.5	15.0	15.0
31	---	---	---	23.0	21.5	22.5	20.0	19.5	19.5	---	---	---
MONTH	24.5	14.0	19.0	25.5	20.5	23.0	26.5	17.0	21.5	20.5	14.0	17.0
YEAR	26.5	0.0	11.5									

01199050 SALMON CREEK AT LIME ROCK, CONN.

LOCATION.--Lat 41°56'32", long 73°23'29", Litchfield County, on left bank 300 ft (90 m) upstream from bridge on Uptown Salisbury Road, 0.6 mi (1.0 km) north of Lime Rock, and 3.0 mi (4.8 km) upstream from mouth.

DRAINAGE AREA.--29.4 mi^2 (76.1 km^2).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.37 ft (189.089 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 46.0 ft^3/s (1.303 m^3/s), 21.25 in/yr (540 mm/yr).

EXTREMES.--Current year: Maximum discharge, 750 ft^3/s (21.2 m^3/s), July 21, gage height, 4.00 ft (1.219 m); minimum, 14 ft^3/s (0.40 m^3/s) July 7-9, gage height, 1.06 ft (0.323 m).

Period of record: Maximum discharge, 1,300 ft^3/s (36.8 m^3/s) Dec. 21, 1973, gage height, 5.38 ft (1.640 m); minimum, 0.7 ft^3/s (0.020 m^3/s) Sept. 25, 1964, gage height, 0.77 ft (0.235 m).

Flood of Aug. 19, 1955, reached a stage of about 13.5 ft (4.11 m), from floodmarks, discharge, 6,300 ft^3/s (178 m^3/s), from rating curve extended above 350 ft^3/s (9.91 m^3/s) on basis of contracted-opening measurement of peak flow.

PEAK DISCHARGE.--(BASE, 250 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
03-20	2000	2.61	283
04-04	0130	3.03	409
07-15	0100	2.90	370
07-21	1230	4.00	750
09-25	2300	3.13	439
09-27	1230	3.19	457

REMARKS.--Records excellent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	53	49	38	61	96	73	36	49	23	41	28
2	47	44	92	37	59	90	70	42	52	20	38	24
3	44	37	95	35	58	82	148	54	39	19	34	23
4	42	48	69	34	55	73	272	58	47	18	43	21
5	36	55	64	33	55	71	143	80	41	17	40	20
6	34	67	55	35	51	67	123	50	95	16	34	21
7	32	53	51	34	50	66	107	70	65	16	52	20
8	30	47	86	34	50	76	97	55	49	15	79	18
9	28	45	118	49	50	61	90	49	43	16	78	22
10	27	40	85	54	50	60	86	50	38	19	50	19
11	26	38	74	69	50	57	81	53	34	17	44	17
12	25	37	72	107	49	59	76	68	82	17	40	22
13	24	56	70	110	49	69	71	148	201	98	36	23
14	24	56	67	80	48	63	68	112	126	177	33	18
15	24	59	64	70	48	58	62	89	91	228	29	17
16	50	54	62	65	47	57	60	86	75	108	31	17
17	69	49	74	59	43	60	55	76	66	80	34	17
18	46	47	67	88	43	55	51	65	59	62	31	16
19	39	45	59	88	45	60	52	60	57	53	27	20
20	37	47	51	76	46	228	51	54	48	133	24	24
21	34	101	49	65	45	178	47	50	41	560	22	20
22	33	95	48	57	46	127	43	48	38	291	22	18
23	32	74	45	55	62	124	39	51	35	149	21	30
24	32	67	45	52	225	117	49	43	33	106	23	74
25	36	70	47	73	285	125	55	38	30	136	24	300
26	46	67	45	142	143	109	46	37	27	97	22	282
27	40	51	45	85	113	89	49	36	26	76	21	381
28	37	54	40	69	101	81	44	33	25	66	19	306
29	36	55	39	72	---	78	40	30	28	58	17	200
30	35	53	38	82	---	91	37	31	28	52	74	160
31	47	---	37	64	---	83	---	40	---	47	41	---
TOTAL	1149	1664	1902	2011	2027	2710	2285	1792	1668	2790	1124	2178
MEAN	37.1	55.5	61.4	64.9	72.4	87.4	76.2	57.8	55.6	90.0	36.3	72.6
MAX	69	101	118	142	285	228	272	148	201	560	79	381
MIN	24	37	37	33	43	55	37	30	25	15	17	16
CFSM	1.26	1.89	2.09	2.21	2.46	2.97	2.59	1.97	1.89	3.06	1.23	2.47
IN.	1.45	2.11	2.41	2.54	2.56	3.43	2.89	2.27	2.11	3.53	1.42	2.76

CAL YR 1974 TOTAL 19818.5 MEAN 54.3 MAX 272 MIN 5.9 CFSM 1.85 IN 25.08
WTR YR 1975 TOTAL 23300.0 MEAN 63.8 MAX 560 MIN 15 CFSM 2.17 IN 29.48

01199200 GUINEA BROOK AT ELLSWORTH, CONN.

LOCATION.--Lat 41°49'27", long 73°25'50", Litchfield County, on left bank just upstream from culvert on West Woods Road, 0.4 mi (0.6 km) southwest of Ellsworth, 3 mi (5 km) west of Cornwall Bridge, and 4.5 mi (7.2 km) southeast of Sharon.

DRAINAGE AREA.--3.50 mi^2 (9.06 km^2).

PERIOD OF RECORD.--July 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,141.60 ft (347.960 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 6.51 ft^3/s (0.184 m^3/s), 25.26 in/yr (642 mm/yr).

EXTREMES.--Current year: Maximum discharge, 118 ft^3/s (3.34 m^3/s) July 21, gage height, 3.57 ft (1.088 m); minimum, 0.23 ft^3/s (0.007 m^3/s) July 7, 8, gage height, 0.69 ft (0.210 m).

Period of record: Maximum discharge, 319 ft^3/s (9.03 m^3/s) Dec. 21, 1973, gage height, 5.84 ft (1.780 m); no flow many days in 1962, 1964-68, 1970, 1974.

PEAK DISCHARGE.--(BASE, 50 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
03-20	0400	2.79	70
04-03	1800	2.44	53
07-21	unknown	3.57	118
09-24	2400	2.85	74
09-27	0630	3.04	83

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	15	6.6	4.6	12	16	13	2.7	4.2	1.4	2.0	2.9
2	4.6	3.0	13	4.5	10	16	12	5.8	3.9	1.1	1.5	1.8
3	2.1	2.9	18	4.3	9.6	13	30	7.8	2.3	.76	1.5	.97
4	1.9	6.6	15	3.8	8.8	11	36	6.0	2.2	.52	2.0	.81
5	1.6	8.6	12	3.7	5.6	10	23	11	2.3	.42	1.5	.64
6	1.8	9.9	9.7	3.6	6.3	9.5	19	7.2	13	.30	1.5	.69
7	2.8	7.3	8.6	3.2	6.7	9.3	16	8.4	14	.23	5.0	.76
8	1.5	6.2	22	3.4	6.5	14	14	6.8	6.2	.23	12	.59
9	2.0	6.0	31	7.3	6.3	14	11	5.8	3.0	.30	9.0	.72
10	14	5.8	19	10	6.5	7.6	9.7	9.7	1.6	.35	7.5	.51
11	7.3	5.2	15	17	6.5	6.4	7.6	13	1.6	.30	4.0	.45
12	.90	13	14	27	6.5	7.2	7.1	12	12	.30	2.5	.94
13	.63	16	13	20	6.5	12	6.4	26	29	5.0	1.8	2.0
14	3.6	12	12	18	6.0	11	6.6	17	20	20	1.5	1.3
15	2.8	11	11	18	6.0	7.5	6.3	13	11	35	5.3	.92
16	5.0	9.4	9.8	15	6.0	8.5	15	14	6.8	20	4.1	.68
17	9.9	8.1	14	13	6.0	9.0	11	11	8.8	15	1.2	.67
18	6.0	6.2	13	20	5.5	11	6.4	10	7.3	10	1.1	.45
19	3.3	6.0	11	26	5.5	13	7.1	9.6	5.0	7.5	1.1	.72
20	3.3	6.4	8.7	17	5.5	66	6.8	7.5	4.0	25	1.2	1.2
21	3.6	18	7.8	13	5.4	43	5.2	6.6	2.7	90	1.0	1.1
22	3.0	16	7.3	11	5.4	27	4.3	6.3	2.2	45	1.7	.93
23	5.6	13	7.3	10	8.7	25	4.6	5.1	2.0	25	1.2	4.0
24	5.0	11	6.4	9.3	29	21	6.4	4.2	2.0	17	1.0	26
25	3.0	11	6.4	15	38	24	9.4	3.2	1.7	20	1.3	67
26	3.5	9.4	6.1	28	27	19	6.4	3.2	1.5	15	.98	50
27	2.8	8.6	5.1	18	20	16	4.8	3.1	1.1	10	1.0	74
28	1.6	7.1	5.0	14	18	15	4.9	2.7	1.1	8.0	.93	44
29	1.7	7.1	4.8	15	---	14	7.3	2.2	2.0	6.0	.63	26
30	1.7	6.9	4.7	18	---	17	4.1	2.3	3.5	4.0	8.8	19
31	24	---	4.6	14	---	16	---	3.5	---	3.0	6.1	---
TOTAL	137.63	272.7	341.9	404.7	289.8	509.0	321.4	246.7	178.0	386.71	91.94	331.75
MEAN	4.44	9.09	11.0	13.1	10.4	16.4	10.7	7.96	5.93	12.5	2.97	11.1
MAX	24	18	31	28	38	66	36	26	29	90	12	74
MIN	.63	2.9	4.6	3.2	5.4	6.4	4.1	2.2	1.1	.23	.63	.45
CFSM	1.27	2.60	3.14	3.74	2.97	4.69	3.06	2.27	1.69	3.57	.85	3.17
IN.	1.46	2.90	3.63	4.30	3.08	5.41	3.42	2.62	1.89	4.11	.98	3.53

CAL YR 1974 TOTAL 2603.17 MEAN 7.13 MAX 34 MIN 0 CFSM 2.04 IN 27.67
WTR YR 1975 TOTAL 3512.23 MEAN 9.62 MAX 90 MIN .23 CFSM 2.75 IN 37.33

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.

LOCATION.--Lat 41°39'32", long 73°31'44", Dutchess County, New York, on right bank 0.1 mi (0.2 km) downstream from Deuel Hollow Brook, 1.2 mi (1.9 km) upstream from New York-Connecticut State line, 1.7 mi (2.7 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Gaylordsville.

DRAINAGE AREA.--203 mi^2 (526 km^2).

PERIOD OF RECORD.--Discharge: October 1929 to current year. Monthly discharge only for period October to December 1929, published in WSP 1301.
Chemical analyses: October 1958 to September 1959, April to August 1968, October 1972 to May 1975 (discontinued).
Water temperatures: October 1958 to September 1959.

GAGE.--Water-stage recorder. Datum of gage is 304.4 ft (92.78 m) above mean sea level (levels by Connecticut Light and Power Company).

AVERAGE DISCHARGE.--46 years, 297 ft^3/s (8.411 m^3/s), 19.87 in/yr (505 mm/yr).

EXTREMES.--Current year: Maximum disharge, 2,920 ft^3/s (82.7 m^3/s) Sept. 27, gage height, 6.16 ft (1.878 m); minimum, 63 ft^3/s (1.78 m^3/s) July 9, gage height, 1.08 ft (0.329 m).

Period of record: Maximum discharge, 17,400 ft^3/s (493 m^3/s) Aug. 19, 1955, gage height, 14.9 ft (4.54 m), from high-water mark, from rating curve extended above 9,800 ft^3/s (278 m^3/s); minimum, 5 ft^3/s (0.142 m^3/s) Sept. 8, 1957; minimum gage height, 0.52 ft (0.158 m) Sept. 24, 26, 1939; minimum daily discharge, 7 ft^3/s (0.198 m^3/s) Oct. 7, 1957.
Specific conductance (1958-59): Maximum daily, 432 micromhos Sept. 29, 1959; minimum daily, 127 micromhos Feb. 11, 1959.
Water temperatures: Maximum, 26°C Aug. 17, 1959; minimum, 0.5°C on many days during winter months.

PEAK DISCHARGE.--(BASE, 1,400 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
02-25	1200	5.32	2,100
03-20	2200	5.19	1,980
04-04	0800	4.67	1,560
07-22	0400	5.15	1,940
09-27	0800	6.16	2,920

REMARKS.--Records excellent. Infrequent regulation at low flow. Records of water quality for the current year are also published in Water Resources Data for New York. See REVISIONS summary paragraph in WSP 1901. Records of iron, specific conductance, and pH of daily samples for 1958-59 available in district office at Hartford, Connecticut.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	289	211	214	255	540	732	563	210	186	116	278	150
2	230	156	348	240	482	660	514	245	185	97	248	125
3	185	135	584	230	433	586	831	256	158	89	222	111
4	145	130	443	220	365	507	1450	254	170	84	241	97
5	126	147	348	210	340	462	1020	336	171	77	237	87
6	114	211	331	197	310	451	846	283	286	72	204	84
7	103	190	299	200	290	430	736	358	390	69	331	87
8	95	168	428	203	275	470	656	340	290	67	354	81
9	89	154	740	378	270	377	593	302	236	91	403	83
10	86	143	588	557	259	345	548	313	196	166	293	84
11	81	137	508	595	260	343	511	300	162	109	237	78
12	78	134	464	873	260	353	476	304	255	87	235	81
13	76	225	443	965	255	429	442	629	687	260	199	115
14	76	265	410	974	255	391	412	641	604	905	170	102
15	76	230	389	742	250	352	387	498	446	1190	146	87
16	117	230	378	678	250	349	367	495	367	687	142	78
17	259	203	541	580	252	358	341	472	322	512	158	75
18	201	190	553	516	263	339	319	411	276	391	154	72
19	159	183	475	827	280	370	315	377	249	300	135	74
20	141	185	425	787	300	1490	311	336	215	406	119	83
21	128	345	392	552	320	1610	282	307	184	1430	107	84
22	114	479	375	561	341	1090	259	286	163	1650	105	77
23	107	361	345	517	450	966	243	258	146	974	97	99
24	102	325	335	477	1120	841	286	233	136	688	103	439
25	100	325	325	551	2000	928	364	217	124	922	115	1780
26	109	305	315	1110	1430	794	316	202	116	967	108	1970
27	110	256	302	849	1010	646	281	187	110	680	105	2730
28	103	250	295	684	816	594	262	171	108	535	94	2070
29	98	242	280	687	---	575	237	155	119	440	84	1350
30	95	230	275	757	---	648	220	151	141	363	204	986
31	193	---	265	622	---	663	---	190	---	315	231	---
TOTAL	3985	6745	12413	17594	13676	19149	14388	9717	7198	14739	5859	13419
MEAN	129	225	400	568	488	618	480	313	240	475	189	447
MAX	289	479	740	1110	2000	1610	1450	641	687	1650	403	2730
MIN	76	130	214	197	250	339	220	151	108	67	84	72
CFSM	.64	1.11	1.97	2.80	2.40	3.04	2.36	1.54	1.18	2.34	.93	2.20
IN.	.73	1.24	2.27	3.22	2.51	3.51	2.64	1.78	1.32	2.70	1.07	2.46

CAL YR 1974 TOTAL 113338 MEAN 311 MAX 1460 MIN 34 CFSM 1.53 IN 20.77
WTR YR 1975 TOTAL 138882 MEAN 380 MAX 2730 MIN 67 CFSM 1.87 IN 25.45

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)
OCT.										
22...	1830	115	8.1	14.0	8.0	12.6	103	150	60	41
NOV.										
15...	1200	238	8.3	5.0	7.0	13.9	111	250	30	34
DEC.										
17...	1130	568	7.9	5.5	3.0	14.1	105	520	70	29
JAN.										
09...	1100	362	8.0	2.5	2.5	14.4	115	2000	90	35
FEB.										
12...	1045	376	8.0	-4.0	.0	14.2	102	150	20	38
MAR.										
26...	1030	800	7.9	-2.0	2.0	14.3	104	360	30	30
APR.										
10...	0900	560	8.1	5.0	4.0	13.2	101	300	20	28
MAY										
07...	1710	394	8.9	23.5	15.0	13.2	129	500	40	32

DATE	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.										
22...	17	6.0	2.0	182	7	161	15	12	.57	.03
NOV.										
15...	13	5.1	2.0	164	0	135	9.2	3.8	.60	.00
DEC.										
17...	12	4.1	1.1	128	0	105	17	7.0	.87	.00
JAN.										
09...	15	4.7	.6	152	0	125	17	9.3	.87	.01
FEB.										
12...	15	5.6	1.5	161	0	132	19	11	1.4	.00
MAR.										
26...	12	4.0	1.4	126	0	103	18	9.6	.92	.01
APR.										
10...	12	4.2	1.2	125	0	103	16	7.9	.94	.01
MAY										
07...	13	4.5	1.6	139	0	114	15	7.1	.41	.01

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.									
22...	.60	.08	.15	.23	.83	3.7	.04	.04	212
NOV.									
15...	.60	.11	.17	.28	.88	3.9	.03	.06	195
DEC.									
17...	.87	.07	.19	.26	1.1	5.0	.02	.04	167
JAN.									
09...	.88	.03	.44	.47	1.4	6.0	.02	.09	206
FEB.									
12...	1.4	.01	.19	.20	1.6	7.1	.02	.02	198
MAR.									
26...	.93	.01	.13	.14	1.1	4.7	.01	.04	175
APR.									
10...	.95	.01	.34	.35	1.3	5.8	.01	.02	163
MAY									
07...	.42	.01	.28	.29	.71	3.1	.01	.03	173

DATE	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.									
22...	202	1	0	410	20	2	2.5	6.4	10
NOV.									
15...	143	6	2	340	20	3	1.3	8.4	10
DEC.									
17...	126	15	10	310	2	6	2.6	3.6	9
JAN.									
09...	169	44	35	340	4	20	2.4	4.0	10
FEB.									
12...	143	6	3	345	6	2	2.6	1.6	4
MAR.									
26...	147	10	6	278	14	4	2.5	2.5	6
APR.									
10...	129	3	2	269	5	2	1.6	1.5	6
MAY									
07...	159	16	13	278	7	2	.3	3.0	11

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CONN.

LOCATION.--Lat 41°39'11", long 73°29'25", Litchfield County, on left bank 0.4 mi (0.6 km) downstream from hydroelectric plant of Connecticut Light and Power Co., 0.5 mi (0.8 km) upstream from bridge on U.S. Highway 7 at Gaylordsville, 1.5 mi (2.4 km) downstream from Tenmile River, and at mile 50.6 (81.4 km).

DRAINAGE AREA.--993 mi^2 (2,572 km^2).

PERIOD OF RECORD.--Discharge: October 1900 to December 1904 (fragmentary), January 1905 to December 1908 (gage heights only), January 1909 to December 1912 (fragmentary), January 1913 to October 1914 (gage heights only), November 1914 (fragmentary), July 1940 to current year.
Chemical analyses: October 1959 to September 1960, November 1967 to September 1968.
Water temperatures: October 1959 to September 1960, November 1967 to September 1968.

GAGE.--Water-stage recorder. Datum of gage is 236.78 ft (72.171 m) above mean sea level. October 1900 to November 1914, nonrecording gage on covered bridge 0.6 mi (1.0 km) downstream at different datum.

AVERAGE DISCHARGE.--35 years, (1940-75), 1,651 ft^3/s (46.76 m^3/s) 22.62 in/yr (575 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,200 ft^3/s (346 m^3/s) Sept. 27, gage height, 9.54 ft (2.908 m); minimum, 132 ft^3/s (3.74 m^3/s) Sept. 16.

Period of record: Maximum discharge, 51,800 ft^3/s (1,470 m^3/s) Aug. 19, 1955, gage height, 18.58 ft (5,663 m): minimum observed, about 30 ft^3/s (0.85 m^3/s) Oct. 28, 1914, gage height, 2.18 ft (0.664 m), site and datum then in use; minimum daily since July 1940, about 60 ft^3/s (1.70 m^3/s) Aug. 31, 1944, Sept. 20, 1949.
Specific conductance: Maximum, 470 micromhos Aug. 27, 1968; minimum, 130 micromhos Apr. 6, 1960, Nov. 16, 1967.
Water temperatures: Maximum, 29°C Aug. 3, 1968; minimum, freezing point on many days during winter periods.

Flood in May 1854 reached a stage of 21 ft 3 in (6.477 m), former site and datum; reported by observer in 1902. Flood of Sept. 22, 1938, reached a stage of 14.5 ft (4.42 m), from floodmarks, at present site, discharge, 37,000 ft^3/s (1,050 m^3/s) by computation of peak flow over dam 2.5 mi (4.0 km) upstream adjusted for flow from intervening area.

PEAK DISCHARGE.--(BASE, 6,000 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
02-25	1430	7.62	7,630
03-21	0130	7.74	7,880
04-04	1530	7.42	7,210
07-22	0530	7.27	6,910
09-27	0500	9.54	12,200

REMARKS.--Records good. Ordinary flow regulated by power plant upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2090	1520	1600	1390	2510	4170	3340	1670	1220	905	1500	1680
2	1700	1410	2060	1380	2240	3490	3040	1730	1370	813	1250	1380
3	1540	1140	2720	1350	1990	3060	4100	1710	1280	751	1200	1140
4	1360	1180	2670	1280	1600	2640	6860	1870	1300	724	1140	955
5	1180	1280	2110	1260	1500	2420	6480	2420	1910	665	1130	881
6	1050	1730	1950	1060	1700	2350	5790	2330	2440	593	1130	819
7	917	1910	1830	1150	1860	2240	4980	2610	2950	615	1390	779
8	970	1740	2360	1240	1620	2380	4190	2530	2800	480	1830	830
9	896	1570	4260	1520	1620	2210	3630	2190	2500	648	3380	820
10	800	1510	4260	2090	1470	2010	3290	2020	2160	870	3860	817
11	799	1290	3720	2320	1470	1960	3140	1850	1730	663	3600	736
12	824	1300	3170	3930	1450	1930	2980	2070	1950	637	3000	728
13	831	1600	2750	4770	1450	2080	2850	3360	4120	1150	2370	780
14	824	1720	2510	4500	1400	2120	2700	4410	5440	3590	2110	861
15	770	1800	2390	3450	1430	1900	2550	4070	5190	5410	1670	868
16	853	1840	2310	2890	1410	1850	2480	3680	4600	4550	1510	789
17	1750	1670	2580	2630	1450	1890	2380	3200	3680	3450	1410	674
18	1780	1580	2660	2300	1370	1920	2330	2780	2830	2560	1410	651
19	1700	1470	2390	3140	1450	2100	2410	2520	2370	1960	1200	647
20	1480	1440	2150	3340	1540	5730	2530	2140	2030	2060	1100	734
21	1280	2010	1990	2420	1580	7480	2640	2000	1740	5370	960	726
22	1090	3130	1880	2420	1500	6540	2500	1840	1610	6510	1010	805
23	1050	3180	1790	2300	1750	5990	2300	1860	1340	4920	838	970
24	1100	2820	1770	2140	3760	5170	2140	1710	1300	3410	848	1960
25	1010	2490	1810	2280	7340	5000	2410	1620	1130	3510	855	5900
26	1020	2260	1600	3870	6930	4670	2410	1390	1060	4040	893	7780
27	1110	2010	1590	3770	6040	4130	2200	1280	972	3540	858	11100
28	1030	1850	1590	3120	5030	3690	2110	1290	862	2920	817	9420
29	833	1790	1500	2860	---	3360	1920	1240	904	2430	721	7150
30	915	1680	1450	3080	---	3390	1830	1180	1000	1850	1160	5530
31	1270	---	1500	2850	---	3610	---	1210	---	1620	1780	---
TOTAL	35822	53920	70920	78100	66460	103480	94510	67780	65788	73214	47930	68910
MEAN	1156	1797	2288	2519	2374	3338	3150	2186	2193	2362	1546	2297
MAX	2090	3180	4260	4770	7340	7480	6860	4410	5440	6510	3860	11100
MIN	770	1140	1450	1060	1370	1850	1830	1180	862	480	721	647
CFSM	1.16	1.81	2.30	2.54	2.39	3.36	3.17	2.20	2.21	2.38	1.56	2.31
IN.	1.34	2.02	2.66	2.93	2.49	3.88	3.54	2.54	2.46	2.74	1.80	2.58

CAL YR 1974 TOTAL 713276 MEAN 1954 MAX 6120 MIN 113 CFSM 1.97 IN 26.72
WTR YR 1975 TOTAL 826834 MEAN 2265 MAX 11100 MIN 480 CFSM 2.28 IN 30.98

01200600 HOUSATONIC RIVER NEAR NEW MILFORD, CONN.

LOCATION.--Lat 41°35'35", long 73°27'00", Litchfield County, at Boardman Bridge, 2.3 mi (3.7 km) northwest of New Milford.

DRAINAGE AREA.--1,022 mi^2 (2,647 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1961, November 1962, July 1974 to current year.

WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH (FT)	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
OCT.												
21...	1530	--	1200	8.6	4.0	5.5	12.5	99	3.8	0	110	10
NOV.												
11...	1340	--	1380	8.5	16.0	6.5	11.4	93	3.3	10	90	20
DEC.												
03...	1445	--	2960	8.0	4.5	1.0	12.0	86	4.2	10	100	10
JAN.												
07...	1330	--	1190	8.5	7.0	1.0	14.6	101	3.7	0	30	20
FEB.												
04...	1300	--	1530	7.7	-4.0	.5	14.3	99	4.4	0	70	30
MAR.												
04...	1230	--	2650	7.7	-.5	1.0	13.5	95	4.2	0	120	20
APR.												
07...	1220	--	5090	7.7	6.0	3.0	14.2	105	3.8	0	110	20
MAY												
05...	1130	--	2470	8.0	14.0	11.0	11.3	102	2.5	10	40	30
JUNE												
09...	1210	--	2600	7.6	18.5	15.0	10.2	100	4.2	0	100	20
JULY												
14...	1245	--	3160	7.9	24.0	22.0	7.5	85	3.6	10	70	0
AUG.												
18...	1150	2.0	1330	7.8	25.0	21.0	8.9	100	4.7	0	10	0
18...	1155	10	--	--	--	--	8.7	98	--	--	--	--
SEP.												
02...	1200	--	1310	8.0	18.5	18.0	10.4	101	3.7	0	40	0

DATE	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)
OCT.												
21...	20	29	11	118	0	97	15	9.8	.01	.20	.19	.24
NOV.												
11...	10	28	11	118	0	97	14	8.6	.01	.30	.09	.12
DEC.												
03...	10	23	9.6	101	0	83	12	8.4	.01	.47	.10	.13
JAN.												
07...	10	31	12	128	0	105	16	13	.00	.55	.05	.06
FEB.												
04...	10	28	10	112	0	92	13	12	.00	.62	.02	.03
MAR.												
04...	10	25	9.0	102	0	84	12	11	.02	.56	.06	.08
APR.												
07...	0	20	7.3	79	0	65	11	11	.00	.41	.04	.05
MAY												
05...	0	27	9.5	103	0	84	13	9.7	.01	.36	.00	.00
JUNE												
09...	10	24	8.5	103	0	84	8.2	8.5	.01	.39	.03	.04
JULY												
14...	10	33	11	121	0	99	10	12	.00	.38	.09	.12
AUG.												
18...	0	33	12	198	0	162	11	13	.01	.43	.02	.03
18...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
02...	10	30	13	133	0	109	13	12	.01	.38	.04	.05

01200600 HOUSATONIC RIVER NEAR NEW MILFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL RESI-DUE (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT.												
21...	.37	.18	.57	2.5	.06	163	149	483	.20	120	21	240
NOV.												
11...	.29	.20	.59	2.6	.07	148	154	574	.21	120	18	225
DEC.												
03...	.58	.48	1.1	4.6	.11	140	130	1040	.18	97	14	219
JAN.												
07...	.30	.25	.85	3.8	.05	163	136	437	.19	130	22	273
FEB.												
04...	.10	.08	.72	3.2	.05	142	136	562	.19	110	19	258
MAR.												
04...	.22	.16	.78	3.5	.05	160	141	1010	.19	100	16	230
APR.												
07...	.19	.15	.60	2.7	.05	138	127	1750	.17	80	15	185
MAY												
05...	.39	.39	.75	3.3	.06	144	127	847	.17	110	22	198
JUNE												
09...	.47	.44	.86	3.8	.12	135	122	856	.17	95	10	188
JULY												
14...	.97	.88	1.4	6.0	.19	247	147	1250	.20	130	28	215
AUG.												
18...	.37	.35	.80	3.5	.06	180	160	575	.22	130	0	237
SEP.												
02...	.67	.63	1.1	4.6	.05	178	168	594	.23	130	19	235

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	PHENOLS (UG/L)
OCT.												
21...	20	1	.5	170	160	17	6.9	0	.0	5.0	.0	--
NOV.												
11...	20	1	.6	170	62	8	6.1	0	.0	--	--	3
DEC.												
03...	20	4	1.6	3600	740	980	7.5	0	.0	13	.0	--
JAN.												
07...	2	1	.6	6	5	9	3.3	0	.0	2.7	1.0	--
FEB.												
04...	20	1	3.6	15	6	2	3.3	0	.0	--	--	--
MAR.												
04...	10	2	3.3	130	18	13	5.3	0	.0	--	--	--
APR.												
07...	4	5	2.5	100	76	96	4.1	1	.0	.0	.0	--
MAY												
05...	11	4	1.6	130	64	40	5.1	0	.0	15	.0	--
JUNE												
09...	16	4	4.1	1400	400	50	8.6	0	.0	1.7	.0	--
JULY												
14...	10	3	2.4	38000	22000	17000	12	0	.0	31	.0	--
AUG.												
18...	6	4	5.0	630	840	60	4.3	0	.0	.0	.0	--
SEP.												
02...	3	2	2.1	500	100	40	7.7	0	.0	12	.0	--

01200600 HOUSATONIC RIVER NEAR NEW MILFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (1G/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)
OCT. 21...	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 21...	0	0	.0	.0	.0	.0	.0	.0	.0	130	2	6

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 21...	100	1.3	48200	3	1	5	12	5900	18	280	.1	48

01201485 STILL RIVER AT BROOKFIELD CENTER, CONN.

LOCATION.--Lat 41°27'33", long 73°23'47", Fairfield County, at bridge on State Highway 133 at Brookfield Junction, 0.8 mi (1.3 km) southwest of Brookfield Center.

DRAINAGE AREA.--60.6 mi^2 (157.0 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970, October 1971, July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
22...	0930	65	7.6	1.0	5.0	12.6	98	10	40	180	80	30
NOV.												
11...	1600	49	7.6	14.5	8.0	9.4	87	8.5	10	100	10	0
DEC.												
03...	1620	470	7.7	2.0	1.0	9.3	66	5.9	30	160	100	30
JAN.												
07...	1515	96	7.6	4.5	4.0	13.0	98	8.7	30	60	120	30
FEB.												
04...	1430	104	7.1	-3.5	2.0	14.5	104	8.7	30	70	120	20
MAR.												
04...	1345	122	7.2	1.0	2.0	13.8	99	8.0	10	80	100	10
APR.												
07...	1345	226	7.3	6.0	6.0	13.6	114	7.3	10	80	60	20
MAY												
05...	1245	196	7.3	12.0	11.0	9.8	89	6.1	0	70	100	10
JUNE												
09...	1315	62	7.4	19.5	17.0	7.7	75	8.7	20	90	110	30
JULY												
14...	1545	304	7.1	25.0	22.0	6.5	74	6.5	10	140	130	0
AUG.												
18...	1310	44	7.5	27.5	22.0	9.2	105	9.4	10	40	80	20
SEP.												
02...	1315	32	7.2	26.5	18.5	7.4	70	9.1	10	40	100	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
22...	36	12	142	0	116	34	30	.02	1.3	2.2	2.8	2.5
NOV.												
11...	35	13	119	0	98	25	29	.01	.85	2.3	3.0	2.4
DEC.												
03...	19	5.8	55	0	45	15	16	.02	.61	.52	.67	1.2
JAN.												
07...	29	9.8	108	0	89	24	57	.04	.76	1.4	1.8	1.3
FEB.												
04...	29	9.9	112	0	92	24	28	.00	.85	1.5	1.9	1.7
MAR.												
04...	27	9.0	101	0	83	23	26	.03	.82	1.2	1.5	1.4
APR.												
07...	24	8.1	78	0	64	20	18	.01	.64	.63	.81	.72
MAY												
05...	24	8.1	89	0	73	17	19	.02	.50	.78	1.0	1.4
JUNE												
09...	33	12	129	0	106	25	27	.01	1.7	1.5	1.9	1.6
JULY												
14...	20	5.9	77	0	63	17	16	.05	.68	.44	.57	1.4
AUG.												
18...	39	13	137	0	112	26	32	.00	2.5	.88	1.1	1.4
SEP.												
02...	37	14	138	0	113	25	31	.01	2.9	.14	.18	.64

01201485 STILL RIVER AT BROOKFIELD CENTER, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
22...	.30	3.8	17	.71	246	233	40.9	.32	140	23	340	30
NOV.												
11...	.10	3.3	14	.59	341	215	28.4	.29	140	43	345	20
DEC.												
03...	.68	1.8	8.0	.33	167	118	150	.16	71	26	188	50
JAN.												
07...	.00	2.1	9.1	.42	248	218	56.5	.30	110	24	420	4
FEB.												
04...	.20	2.6	11	.33	203	180	50.5	.24	110	21	332	20
MAR.												
04...	.20	2.2	9.8	.25	203	182	60.0	.25	100	22	300	20
APR.												
07...	.09	1.4	6.0	.16	173	166	101	.23	93	29	240	7
MAY												
05...	.62	1.9	8.4	.27	271	154	81.5	.21	93	20	240	22
JUNE												
09...	.10	3.3	15	.50	280	218	36.8	.30	130	26	312	14
JULY												
14...	.96	2.1	9.2	.57	434	136	112	.19	74	11	186	25
AUG.												
18...	.52	3.9	17	.69	262	277	32.9	.38	150	39	348	8
SEP.												
02...	.50	3.5	16	.65	286	264	22.8	.36	150	37	350	7

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
22...	5	5.7	600	8	4	13	0	.4	2.5	2.5	--
NOV.											
11...	3	4.8	110	11	5	--	0	.4	--	--	--
DEC.											
03...	7	1.8	24000	6000	10000	10	0	.1	1.5	.0	8
JAN.											
07...	7	4.3	20000	15000	2200	7.5	0	.3	4.0	2.5	--
FEB.											
04...	7	14	--	160	110	7.3	1	.2	.0	.0	--
MAR.											
04...	5	10	30	10	2	8.7	0	.2	.0	.0	--
APR.											
07...	5	6.3	50	3	1	5.7	0	.1	.0	.0	--
MAY											
05...	10	7.1	3300	1200	320	9.2	0	.0	4.7	.0	--
JUNE											
09...	5	8.2	3700	180	150	20	0	.1	.0	.0	--
JULY											
14...	40	9.8	30000	4100	1200	14	0	.1	.0	.0	--
AUG.											
18...	4	6.9	4500	37	B15	6.9	0	.2	.0	.0	--
SEP.											
02...	4	14	2500	150	25	11	0	.1	.0	.0	--

01201485 STILL RIVER AT BROOKFIELD CENTER, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 22...	.0	3	2.5	.0	.0	3.1	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 22...	0	0	.0	.0	.0	.0	.0	.0	.0	87	1	2

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 22...	100	1.4	34100	1	0	25	31	3100	18	39	3.6	38

01201700 LAKE LILLINONAH NEAR BROOKFIELD CENTER, CONN.

LOCATION.--Lat 41°28'47", long 73°21'04", on Fairfield-Litchfield County line, at bridge on State Highway 133, 2.1 mi (3.4 km) northeast of Brookfield Center.

DRAINAGE AREA.--1,214 mi^2 (3,144 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH (FT)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.												
22...	1155	3.0	8.3	17.0	11.0	9.6	76	1.8	0	40	10	10
NOV.												
12...	1010	3.0	7.8	7.5	10.0	8.7	80	2.6	0	60	0	10
DEC.												
04...	1000	3.0	7.9	-1.0	1.0	11.6	82	4.3	0	80	20	70
JAN.												
08...	1025	3.0	8.0	1.0	1.0	11.4	80	4.9	0	50	20	10
FEB.												
05...	0950	3.0	7.3	-2.0	2.0	10.4	74	4.6	10	30	30	10
MAR.												
04...	1440	3.0	7.5	.5	3.0	13.0	96	4.5	0	70	30	0
APR.												
07...	1425	3.0	7.7	6.0	3.0	13.2	98	3.9	10	50	20	0
MAY												
06...	1055	3.0	8.1	20.0	12.0	10.6	98	2.0	0	50	0	10
JUNE												
09...	1415	3.0	7.9	20.5	20.5	7.8	71	1.1	0	40	10	10
JULY												
14...	1430	3.0	8.4	24.0	25.5	6.5	78	1.5	50	60	10	10
AUG.												
18...	1550	2.0	8.5	28.5	26.0	11.6	143	4.2	0	20	0	0
18...	1555	20	--	--	--	5.9	73	--	--	--	--	--
SEP.												
02...	1410	3.0	7.9	25.5	22.5	6.1	54	4.0	0	30	10	10

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
22...	29	11	116	0	95	19	14	.01	.25	.25	.32	.58
NOV.												
12...	29	11	117	0	96	16	11	.01	.31	.24	.31	.54
DEC.												
04...	25	9.7	104	0	85	14	9.4	.01	.46	.14	.18	.33
JAN.												
08...	22	8.4	70	0	57	15	11	.01	.64	.17	.22	.43
FEB.												
05...	27	9.7	102	0	84	13	15	.00	.58	.08	.10	.24
MAR.												
04...	21	7.9	88	0	72	12	11	.01	.53	.13	.17	.31
APR.												
07...	19	7.2	71	0	58	9.4	8.6	.01	.40	.09	.12	.26
MAY												
06...	25	9.5	103	0	84	13	11	.02	.35	.09	.12	.32
JUNE												
09...	25	9.2	106	0	87	12	12	.01	.33	.08	.10	.45
JULY												
14...	25	9.6	115	0	94	12	12	.00	.07	.13	.17	.60
AUG.												
18...	26	9.4	112	0	92	10	11	.00	.17	.11	.14	.63
18...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
02...	26	11	113	0	93	11	10	.02	.23	.14	.18	.72

01201700 LAKE LILLINONAH NEAR BROOKFIELD CENTER, CONN.--continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DEPTH (FT)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
22...	3.0	.33	.83	3.7	.07	154	146	.20	120	23	229	20
NOV.												
12...	3.0	.30	.85	3.8	.08	155	154	.21	120	22	235	10
DEC.												
04...	3.0	.19	.79	3.5	.06	141	128	.17	100	17	232	10
JAN.												
08...	3.0	.26	1.1	4.7	.05	116	105	.14	90	32	192	2
FEB.												
05...	3.0	.16	.82	3.6	.06	143	132	.18	110	24	235	7
MAR.												
04...	3.0	.18	.84	3.7	.04	129	127	.17	85	13	205	10
APR.												
07...	3.0	.17	.66	2.9	.05	118	117	.16	77	19	170	8
MAY												
06...	3.0	.23	.67	3.0	.06	142	132	.18	100	17	208	8
JUNE												
09...	3.0	.37	.78	3.5	.05	148	130	.18	100	13	205	10
JULY												
14...	3.0	.47	.67	3.0	.05	144	147	.20	100	8	205	2
AUG.												
18...	2.0	.52	.80	3.5	.05	138	136	.19	100	12	187	7
18...	20	--	--	--	--	--	--	--	--	--	--	--
SEP.												
02...	3.0	.58	.95	4.2	.04	157	112	.15	110	18	204	2

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
22...	4	.9	500	26	1	7.2	0	.0	21	.0	--
NOV.											
12...	1	3.0	11	3	1	7.9	0	.0	.0	.0	--
DEC.											
04...	2	2.1	100	33	29	6.4	0	.0	1.7	.0	1
JAN.											
08...	1	1.1	32	4	2	7.5	0	.0	6.0	1.3	--
FEB.											
05...	2	8.2	4	18	6	3.4	0	.0	.0	.0	--
MAR.											
04...	3	4.5	520	22	12	4.6	0	.0	.0	.0	--
APR.											
07...	7	2.3	110	84	140	5.9	0	.0	.0	.0	--
MAY											
06...	2	1.3	120	40	2	19	0	.0	9.3	.0	--
JUNE											
09...	1	2.1	12	<1	3	4.1	0	.0	3.3	.0	--
JULY											
14...	2	.7	92	7	40	4.6	0	.0	.0	.0	--
AUG.											
18...	3	.6	980	2	6	6.5	0	.0	14	.0	--
18...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
02...	2	2.3	2000	1	1	6.9	0	.0	12	.0	--

01201700 LAKE LILLINONAH NEAR BROOKFIELD CENTER, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 22...	.0	0	6.3	3.0	2.0	.0	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 22...	0	0	.0	.0	.0	.0	.0	.0	.0	240	14	44

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 22...	100	3.9	63800	3	1	22	34	14000	32	320	.2	75

01201930 MARSHEPAUG RIVER NEAR MILTON, CONN.

LOCATION.--Lat 41°47'22", long 73°15'34", Litchfield County, on left bank downstream from bridge on Maple Street, 1.5 mi (2.4 km) northeast of Milton.

DRAINAGE AREA.--9.24 mi^2 (23.93 km^2).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,083.95 ft (330.388 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 21.3 ft^3/s (0.603 m^3/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 294 ft^3/s (8.33 m^3/s) Sept. 27, gage height, 4.17 ft (1.271 m); minimum, 2.0 ft^3/s (0.057 m^3/s) July 4, gage height, 0.66 ft (0.201 m).

Period of record: Maximum discharge, 474 ft^3/s (13.4 m^3/s) Dec. 22, 1973, gage height, 4.90 ft (1.494 m); minimum, 0.5 ft^3/s (0.014 m^3/s) May 13, 1970, July 21, 1971.

REMARKS.--Records good. Flow regulated by a real estate lake upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	26	39	21	35	35	46	3.3	8.2	4.2	7.7	7.7
2	23	23	44	17	35	35	43	3.8	7.3	2.9	6.8	7.5
3	18	20	42	15	33	33	58	3.5	5.8	2.9	6.0	9.6
4	16	21	39	15	30	32	58	4.8	6.5	2.8	5.5	8.8
5	14	24	36	15	29	30	60	4.6	5.8	2.7	5.1	9.9
6	13	25	36	14	27	27	58	3.8	14	2.8	5.2	14
7	12	22	35	15	26	26	55	4.6	14	2.8	13	14
8	10	21	43	15	25	26	51	3.7	12	2.7	13	13
9	9.4	17	45	18	25	25	49	3.5	10	6.9	24	13
10	9.0	16	47	17	25	24	45	5.3	9.1	11	18	9.7
11	7.9	22	47	22	24	24	43	4.4	8.2	7.2	3.2	9.3
12	7.9	41	47	26	23	24	40	4.6	22	6.6	4.7	13
13	7.9	68	45	32	22	24	38	12	40	16	4.8	13
14	6.7	74	43	35	21	23	28	7.9	36	44	5.5	9.4
15	8.2	71	41	36	20	23	16	21	32	33	4.9	6.9
16	22	64	41	37	20	23	16	34	28	25	5.0	6.8
17	24	59	43	36	19	22	13	31	25	20	5.1	6.8
18	18	53	40	38	19	22	8.6	27	22	17	4.8	6.5
19	14	49	39	40	18	29	9.0	25	19	13	4.0	8.0
20	13	44	37	39	18	50	9.0	22	16	19	3.9	8.6
21	11	47	35	38	16	53	9.0	19	12	46	3.2	8.8
22	10	43	34	37	16	59	6.5	16	10	42	4.0	7.8
23	10	40	30	35	17	61	3.5	14	9.5	34	3.4	16
24	9.8	38	25	34	26	60	5.1	13	8.8	24	3.4	66
25	11	40	25	35	29	65	4.6	10	7.6	28	3.7	139
26	11	46	24	39	32	69	4.3	8.5	6.3	21	3.8	151
27	11	48	24	37	33	64	4.0	8.2	5.4	15	4.1	263
28	9.8	48	24	37	35	58	3.5	7.6	5.0	12	3.7	202
29	9.8	45	23	38	---	53	3.5	6.0	5.6	11	3.5	130
30	10	41	22	39	---	52	3.4	6.3	7.1	9.1	16	70
31	32	---	21	37	---	49	---	8.2	---	8.2	10	---
TOTAL	418.4	1196	1116	909	698	1200	791.0	346.6	418.2	492.8	209.0	1249.1
MEAN	13.5	39.9	36.0	29.3	24.9	38.7	26.4	11.2	13.9	15.9	6.74	41.6
MAX	32	74	47	40	35	69	60	34	40	46	24	263
MIN	6.7	16	21	14	16	22	3.4	3.3	5.0	2.7	3.2	6.5

CAL YR 1974 TOTAL 7522.8 MEAN 20.6 MAX 87 MIN 2.5
WTR YR 1975 TOTAL 9044.1 MEAN 24.8 MAX 263 MIN 2.7

01203000 SHEPAUG RIVER NEAR ROXBURY, CONN.

LOCATION.--Lat 41°32'59', long 73°19'49", Litchfield County, on right bank at downstream side of Wellers Bridge 0.5 mi (0.8 km) south of Roxbury Station, 1.2 mi (1.9 km) southwest of village of Roxbury, and 2.4 mi (3.9 km) upstream from Jacks Brook.

DRAINAGE AREA.--132 mi^2 (343 km^2).

PERIOD OF RECORD.--Discharge: October 1930 to September 1971. Occasional low-flow measurements and annual maximum, October 1972 to current year. (See pages 337,343).
Chemical analyses: September 1953, April 1954, October 1958 to September 1959, July 1974 to current year.
Water temperatures: October 1958 to September 1959.

GAGE.--Water-stage recorder. Datum of gage is 281.98 ft (85.948 m) above mean sea level; levels by Corps of Engineers.

AVERAGE DISCHARGE (adjusted for storage and diversion).--41 years, 236 ft^3/s (6.684 m^3/s), 24.10 in/yr (615 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,000 ft^3/s (283 m^3/s) Sept. 27, gage height, 11.8 ft (3.63 m).

Period of record: Maximum discharge, 50,300 ft^3/s (1,420 m^3/s) Aug. 19, 1955, gage height, 17.2 ft (5.24 m), from floodmarks, from rating curve extended above 3,500 ft^3/s (99.1 m^3/s) on basis of computation of flow over dam at gage heights, 10.77 ft (3.283 m) and 12.8 ft (3.90 m) and slope-area measurement of peak flow; minimum, 2 ft^3/s (0.057 m^3/s) Oct. 6, 1951; minimum gage height, 0.89 ft (0.271 m) Sept. 12, 1965.
Water temperatures: Maximum, 25.0°C Aug. 17, 1959; minimum, freezing point Dec. 14, 1958.

REMARKS.--Water diverted from Shepaug Reservoir for municipal supply of city of Waterbury. Flow regulated by Cairns Reservoir and Shepaug Reservoir. (See p. 321). See REVISIONS summary paragraph in WSP 1901.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
01...	1200	338	7.0	14.0	13.0	10.6	100	3.8	0	160	20	10
NOV.												
12...	0900	120	7.4	6.5	6.0	12.5	100	1.7	0	50	0	0
DEC.												
04...	0845	390	7.5	-2.0	.5	13.6	96	4.3	0	100	10	30
JAN.												
08...	0915	142	7.5	-2.5	.0	15.4	105	4.1	10	60	20	10
FEB.												
05...	0850	260	7.2	-2.5	1.0	13.5	95	4.4	0	60	20	20
MAR.												
05...	1045	270	7.2	3.0	.5	14.0	99	4.4	0	70	20	10
APR.												
08...	1030	479	7.6	5.0	3.5	13.8	103	4.5	0	50	10	0
MAY												
06...	1005	235	7.6	17.0	9.0	12.0	103	4.2	0	80	20	10
JUNE												
10...	1030	130	7.5	21.5	14.5	10.6	109	3.9	0	80	30	10
JULY												
14...	1340	430	7.1	25.5	21.0	7.5	83	6.1	10	180	10	20
AUG.												
18...	1445	52	8.4	25.5	24.0	9.5	113	3.9	0	40	10	10
SEP.												
02...	1505	43	7.9	23.0	19.0	10.4	101	4.4	0	80	10	10

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
01...	8.4	3.3	31	0	25	9.0	6.7	.01	.13	.25	.32	.50
NOV.												
12...	11	4.4	28	0	23	13	5.0	.01	.12	.11	.14	.28
DEC.												
04...	8.1	3.8	25	0	21	10	6.3	.01	.41	.08	.10	.48
JAN.												
08...	10	4.0	32	0	26	12	9.5	.01	.31	.03	.04	.44
FEB.												
05...	9.0	3.7	31	0	25	9.0	8.8	.00	.33	.02	.03	.22
MAR.												
05...	8.4	3.2	29	0	24	9.1	8.6	.01	.34	.07	.09	.24
APR.												
08...	8.5	3.4	21	0	17	8.2	7.7	.02	.23	.03	.04	.22
MAY												
06...	8.0	2.9	26	0	21	9.8	5.5	.01	.12	.00	.00	.25
JUNE												
10...	9.3	2.5	35	0	29	7.6	7.7	.01	.22	.02	.03	.36
JULY												
14...	11	2.8	28	0	23	8.0	7.0	.00	.33	.04	.05	.80
AUG.												
18...	13	4.2	42	0	34	7.9	11	.00	.21	.07	.09	.37
SEP.												
02...	19	4.6	44	0	36	9.8	7.5	.01	.18	.01	.01	.42

01203000 SHEPAUG RIVER NEAR ROXBURY, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT.											
01...	.25	.63	2.8	.10	101	63	57.5	.09	35	9	89
NOV.											
12...	.17	.40	1.8	.02	83	70	22.7	.10	46	23	109
DEC.											
04...	.40	.89	3.9	.03	72	58	61.1	.08	36	15	90
JAN.											
08...	.41	.75	3.3	.02	78	51	19.6	.07	41	15	118
FEB.											
05...	.20	.55	2.4	.02	69	56	39.3	.08	38	12	118
MAR.											
05...	.17	.58	2.6	.02	68	64	46.7	.09	34	10	104
APR.											
08...	.19	.45	2.0	.03	65	62	80.2	.08	35	18	85
MAY											
06...	.25	.37	1.6	.03	74	56	35.5	.08	32	11	87
JUNE											
10...	.34	.58	2.6	.05	114	73	25.6	.10	34	5	97
JULY											
14...	.76	1.1	5.0	.19	134	68	78.9	.09	39	16	86
AUG.											
18...	.30	.58	2.6	.04	86	84	11.8	.11	50	15	108
SEP.											
02...	.41	.60	2.7	.04	93	91	10.6	.12	66	30	114

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)
OCT.											
01...	20	6	5.0	2100	680	390	9.8	--	.0	21	7.5
NOV.											
12...	20	1	1.8	100	12	190	--	0	.0	9.0	3.0
DEC.											
04...	30	2	1.3	1200	960	88	4.7	0	.0	6.3	.0
JAN.											
08...	3	1	1.6	84	74	230	4.9	0	.0	6.0	1.7
FEB.											
05...	20	1	3.1	32	30	4	5.7	0	.0	--	--
MAR.											
05...	20	1	2.9	24	8	1	7.0	0	.0	--	--
APR.											
08...	6	2	.8	20	8	4	5.2	0	.0	2.0	.0
MAY											
06...	15	1	1.0	140	84	17	5.8	0	.0	5.0	.0
JUNE											
10...	15	1	1.8	840	100	80	11	0	.0	.0	.0
JULY											
14...	25	4	3.6	14000	3100	12000	12	0	.0	6.7	.0
AUG.											
18...	8	1	.3	150	83	320	4.9	0	.0	.0	.0
SEP.											
02...	2	1	.9	140	27	64	5.6	0	.0	.0	.0

01203000 SHEPAUG RIVER NEAR ROXBURY, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (1G/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)
OCT. 01...	.0	0	.0	.0	.3	.0	.0	.0	.0	.0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)
OCT. 01...	0	0	0	0	0	1	3	100	2.3	7100

DATE	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 01...	1	0	7	4	34000	8	550	.0	13

01203600 NONEWAUG RIVER AT MINORTOWN, CONN.

LOCATION.--Lat 41°34'32", long 73°10'45", Litchfield County, on right bank 1,000 ft (305 m) downstream from bridge by U.S. Highways 6 and 202 at Minortown, and 2.5 mi (4.0 km) northeast of Woodbury.

DRAINAGE AREA.--17.7 mi^2 (45.8 km^2).

PERIOD OF RECORD.--September 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 354.69 ft (108.110 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage and diversion from October 1962 to September 1969).--13 years, 28.9 ft^3/s (0.816 m^3/s), 22.17 in/yr (563 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,750 ft^3/s (135 m^3/s) Sept. 26, gage height, 8.35 ft (2.545 m); minimum, 1.9 ft^3/s (0.054 m^3/s) July 2, gage height, 0.57 ft (0.174 m).

Period of record: Maximum discharge, 4,750 ft^3/s (135 m^3/s) Sept. 26, 1975, gage height, 8.35 ft (2.545 m), from rating curve extended above 780 ft^3/s; minimum, 0.23 ft^3/s (0.065 m^3/s) Oct. 10, 1970, gage height, 0.34 ft (0.104 m).

Flood of Aug. 19, 1955, reached a stage of 13.2 ft (4.02 m) from floodmarks, discharge, about 10,000 ft^3/s (283 m^3/s), estimated from a comparison of unit runoff of nearby streams.

PEAK DISCHARGE.--(BASE, 500 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-08	1730	3.02	560
03-19	2200	2.94	520
04-03	1400	3.29	714
07-14	0530	4.65	1,560
09-26	1730	8.35	4,750

REMARKS.--Records good. Flow regulated by Lockwood Reservoir. Diversion for municipal supply of town of Watertown.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	32	14	31	40	45	40	20	15	5.0	11	7.3
2	44	27	171	28	37	40	35	32	12	4.5	9.6	6.4
3	35	24	75	23	33	37	220	28	11	4.5	8.6	5.8
4	28	25	44	23	30	33	117	51	12	4.0	8.6	4.2
5	26	36	35	19	30	33	67	66	12	3.6	9.3	3.8
6	23	37	31	23	32	32	54	40	63	4.5	8.2	3.8
7	22	28	28	26	30	31	46	65	31	6.4	31	4.0
8	20	25	149	24	28	35	41	40	18	4.5	27	3.4
9	18	23	100	164	26	28	38	32	14	7.0	21	17
10	17	22	57	69	23	25	35	33	11	31	13	6.1
11	16	21	45	136	22	27	33	28	8.9	23	11	4.7
12	16	25	41	105	20	30	30	37	79	20	9.6	11
13	16	57	38	156	25	35	28	85	142	93	7.6	15
14	15	28	36	93	24	29	25	57	52	667	7.6	8.7
15	15	24	33	61	23	30	24	39	35	263	5.8	7.0
16	96	20	41	48	22	31	24	50	29	125	7.3	6.5
17	61	18	100	41	24	30	21	37	27	75	8.2	6.6
18	39	17	54	119	25	27	19	30	21	54	7.3	5.8
19	30	17	42	113	38	96	22	27	17	44	5.5	7.9
20	27	23	38	79	38	270	19	22	13	39	4.7	11
21	25	57	36	53	35	96	17	53	11	89	4.2	12
22	23	33	35	47	33	63	15	34	9.3	45	4.2	9.6
23	22	24	30	42	50	55	15	26	8.2	32	3.6	43
24	21	23	32	39	150	59	59	21	7.6	25	4.2	206
25	26	23	46	98	100	62	58	18	6.4	105	5.2	205
26	29	19	36	100	70	46	45	17	4.2	63	5.2	1120
27	24	21	30	55	60	37	36	15	5.0	38	5.5	640
28	21	17	29	44	50	36	29	13	5.2	29	3.8	169
29	20	17	26	60	---	34	24	10	5.5	23	3.2	113
30	20	16	28	60	---	66	22	10	6.1	16	28	88
31	53	---	26	45	---	48	---	13	---	12	11	---
TOTAL	902	779	1526	2024	1118	1546	1258	1049	691.4	1955.0	300.0	2751.6
MEAN	29.1	26.0	49.2	65.3	39.9	49.9	41.9	33.8	23.0	63.1	9.68	91.7
MAX	96	57	171	164	150	270	220	85	142	667	31	1120
MIN	15	16	14	19	20	25	15	10	4.2	3.6	3.2	3.4
CFSM	1.64	1.47	2.78	3.69	2.25	2.82	2.37	1.91	1.30	3.57	.55	5.18
IN.	1.90	1.64	3.21	4.25	2.35	3.25	2.64	2.20	1.45	4.11	.63	5.78

CAL YR 1974 TOTAL 11791.1 MEAN 32.3 MAX 490 MIN 1.4 CFSM 1.82 IN 24.78
WTR YR 1975 TOTAL 15900.0 MEAN 43.6 MAX 1120 MIN 3.2 CFSM 2.46 IN 33.42

01204000 POMPERAUG RIVER AT SOUTHBURY, CONN.

LOCATION.--Lat 41°28'50", long 73°13'30", New Haven County, on right bank 200 ft (60 m) upstream from bridge on Poverty Road, 800 ft (250 m) downstream from Bullet Hill Brook, 0.6 mi (1.0 km) west of Southbury, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--75.0 mi^2 (194.2 km^2).

PERIOD OF RECORD.--Discharge: June 1932 to current year.
Chemical analyses: October 1960 to September 1961, April 1965 to September 1967, June 1968 to September 1975.
Water temperatures: October 1960 to September 1961, November 1966 to October 1967.

GAGE.--Water-stage recorder. Datum of gage is 165.60 ft (50.475 m) above mean sea level; levels by Corps of Engineers.

AVERAGE DISCHARGE (adjusted for storage and diversion from October 1960 to September 1969).--43 years, 126 ft^3/s (3.568 m^3/s), 22.82 in/yr (580 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,500 ft^3/s (269 m^3/s) Sept. 26, gage height, 15.68 ft (4.779 m); minimum, 14 ft^3/s (0.40 m^3/s) July 6, gage height, 2.57 ft (0.783 m).

Period of record: Maximum discharge, 29,400 ft^3/s (833 m^3/s) Aug. 19, 1955, gage height, 21.8 ft (6.64 m), from floodmarks, from rating curve extended above 1,200 ft^3/s (34.0 m^3/s) by computation of peak flow over dam at gage height 16.0 ft (4.88 m) and by slope-area measurement of peak flow; minimum, 2.5 ft^3/s (0.071 m^3/s) Aug. 30, 31, 1966; minimum gage height, 2.31 ft (0.704 m) Aug. 10, 1957.
Specific conductance: Maximum daily, 170 micromhos Aug. 21, 1966; minimum daily, 63 micromhos Apr. 25, 1961.
Water temperatures: Maximum, 26.5 °C July 24, 26, 27, Aug. 12-14, 1961; minimum, freezing point on many days during winter months.

PEAK DISCHARGE.--(BASE, 1,400 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
07-14	2000	7.64	1,790
09-26	2230	15.68	9,500

REMARKS.--Records excellent. Flow regulated by Lockwood Reservoir and occasionally at low flow by mill upstream. Diversion for municipal supply of town of Watertown. Records of iron, specific conductance, and pH of daily samples for 1960-61 available in district office at Hartford, Conn. See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	115	84	138	201	228	201	119	83	29	69	45
2	166	96	543	137	182	205	176	144	74	27	62	39
3	136	88	341	116	164	186	545	137	62	26	57	35
4	117	89	232	114	143	166	469	173	69	24	55	29
5	103	101	183	107	151	156	302	259	63	22	59	27
6	93	137	165	94	158	154	271	177	229	21	53	26
7	83	104	155	120	152	151	224	265	157	32	138	27
8	75	93	415	118	140	166	215	189	102	28	110	24
9	70	85	412	430	131	130	197	161	84	24	107	58
10	65	80	272	290	111	121	183	161	71	51	74	38
11	62	77	228	365	80	129	173	151	61	88	62	30
12	59	77	207	372	75	138	162	155	202	65	62	40
13	57	209	192	487	70	185	153	314	477	150	52	58
14	55	142	182	379	70	150	146	259	219	1200	46	37
15	54	122	169	274	80	146	140	190	158	778	41	30
16	261	109	204	230	110	151	135	221	134	425	49	27
17	226	100	405	203	113	151	126	183	126	274	58	27
18	142	95	275	264	123	137	111	156	108	205	50	26
19	114	91	220	417	182	202	124	142	93	166	40	28
20	102	96	196	333	183	821	118	128	77	153	35	35
21	92	231	185	239	164	398	107	190	64	337	32	37
22	86	168	179	224	160	298	100	163	58	181	32	35
23	82	130	165	203	234	270	97	130	52	139	29	127
24	78	121	167	187	556	257	210	112	48	114	31	397
25	82	119	227	288	645	296	274	98	44	294	34	820
26	105	110	190	394	367	237	214	93	40	259	41	1940
27	87	95	144	262	285	189	174	88	38	157	39	3210
28	78	97	141	235	245	184	152	77	37	127	33	699
29	74	95	132	290	---	182	137	68	38	105	28	456
30	72	88	132	290	---	275	126	64	35	89	99	354
31	137	---	131	228	---	240	---	78	---	76	65	---
TOTAL	3221	3360	6873	7828	5275	6699	5762	4845	3103	5666	1742	8761
MEAN	104	112	222	253	188	216	192	156	103	183	56.2	292
MAX	261	231	543	487	645	821	545	314	477	1200	138	3210
MIN	54	77	84	94	70	121	97	64	35	21	28	24
CFSM	1.39	1.49	2.96	3.37	2.51	2.88	2.56	2.08	1.37	2.44	.75	3.89
IN.	1.60	1.67	3.41	3.88	2.62	3.32	2.86	2.40	1.54	2.81	.86	4.35

CAL YR 1974 TOTAL 49134 MEAN 135 MAX 1090 MIN 10 CFSM 1.80 IN 24.37
WTR YR 1975 TOTAL 63135 MEAN 173 MAX 3210 MIN 21 CFSM 2.31 IN 31.32

01204510 LAKE ZOAR AT RIVERSIDE, CONN.

LOCATION.--Lat 41°26'21", long 73°14'53", on Fairfield-New Haven County line, at bridge on U.S. Highway 6 and 202 at Riverside, 3.4 mi (5.5 km) southwest of Southbury.

DRAINAGE AREA.--1,511 mi^2 (3,913 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH (FT)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.												
22...	1450	3.0	7.8	18.5	11.0	8.7	88	2.5	0	80	50	10
NOV.												
12...	1145	3.0	7.6	9.0	9.5	8.5	75	2.3	10	50	30	10
DEC.												
04...	1200	3.0	7.7	2.0	1.0	11.0	79	4.0	20	90	20	10
JAN.												
08...	1150	3.0	7.9	7.5	2.0	14.2	102	5.1	10	60	20	10
FEB.												
05...	1100	3.0	7.0	-1.0	1.0	12.5	86	4.8	0	40	20	10
MAR.												
05...	1150	3.0	7.5	5.5	3.0	13.7	101	4.3	0	90	20	0
APR.												
08...	1150	3.0	7.7	8.0	3.0	12.9	96	4.2	10	60	20	10
MAY												
06...	1200	3.0	7.9	20.5	11.0	11.0	99	2.8	10	40	10	10
JUNE												
10...	1130	3.0	7.5	21.0	18.0	7.2	68	3.5	0	40	20	10
JULY												
14...	1600	3.0	7.1	23.5	22.0	3.7	42	3.4	10	50	90	0
AUG.												
19...	0925	2.0	7.3	20.5	22.0	5.2	59	5.2	0	60	20	10
19...	0930	10	--	--	--	5.6	64	--	--	--	--	--
SEP.												
03...	0945	3.0	7.3	16.5	20.0	3.6	33	4.2	0	20	30	10

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
22...	26	11	103	0	84	17	12	.01	.27	.30	.39	.55
NOV.												
12...	24	9.8	97	0	80	17	11	.01	.27	.25	.32	.55
DEC.												
04...	22	8.6	89	0	73	15	8.8	.01	.36	.15	.19	.42
JAN.												
08...	25	9.4	102	0	84	15	12	.00	.53	.14	.18	.24
FEB.												
05...	21	7.6	79	0	65	15	11	.00	.53	.08	.10	.33
MAR.												
05...	17	6.0	70	0	57	11	11	.01	.48	.18	.23	.33
APR.												
08...	18	7.0	69	0	57	12	5.7	.00	.42	.09	.12	.32
MAY												
06...	22	8.3	88	0	72	12	9.1	.00	--	--	--	--
JUNE												
10...	25	8.9	107	0	88	10	11	.00	.50	.16	.21	.55
JULY												
14...	28	7.7	94	0	77	10	11	.00	.36	.06	.08	.38
AUG.												
19...	25	8.8	107	0	88	10	11	.01	.33	.09	.12	.43
19...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
03...	35	13	126	0	103	13	13	.01	.54	.07	.09	.40

01204510 LAKE ZOAR AT RIVERSIDE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DEPTH (FT)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
22...	3.0	.25	.82	3.6	.06	152	132	.18	110	26	210	10
NOV.												
12...	3.0	.30	.82	3.6	.06	145	135	.18	100	21	212	10
DEC.												
04...	3.0	.27	.78	3.5	.06	125	118	.16	90	17	192	20
JAN.												
08...	3.0	.10	.77	3.4	.06	142	120	.16	100	17	225	7
FEB.												
05...	3.0	.25	.86	3.8	.05	117	110	.15	84	19	195	20
MAR.												
05...	3.0	.15	.81	3.6	.05	108	99	.13	67	10	163	10
APR.												
08...	3.0	.23	.74	3.3	.05	120	110	.15	74	17	155	9
MAY												
06...	3.0	--	--	--	.05	131	118	.16	89	17	190	7
JUNE												
10...	3.0	.39	1.1	4.6	.08	140	135	.18	99	11	200	15
JULY												
14...	3.0	.32	.76	3.4	.06	137	124	.17	100	25	190	4
AUG.												
19...	2.0	.34	.76	3.4	.05	134	127	.17	99	11	189	8
19...	10	--	--	--	--	--	--	--	--	--	--	--
SEP.												
03...	3.0	.33	.94	4.2	.05	186	177	.24	140	38	230	1

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
22...	2	2.6	200	40	3	5.8	0	.0	11	.0	--
NOV.											
12...	1	3.9	12	4	3	7.1	0	.0	.0	.0	--
DEC.											
04...	3	2.8	110	34	27	4.8	0	.0	2.3	.0	1
JAN.											
08...	2	2.1	16	7	1	5.9	0	.0	2.7	1.3	--
FEB.											
05...	2	13	100	16	23	3.9	0	.0	--	--	--
MAR.											
05...	3	3.5	24	14	30	4.4	0	.0	.7	.3	--
APR.											
08...	7	2.2	80	44	60	4.2	0	.0	.0	.0	--
MAY											
06...	2	1.8	100	34	2	5.0	0	--	1.0	.0	--
JUNE											
10...	3	5.4	130	37	14	5.9	0	.0	.0	.0	--
JULY											
14...	3	12	10000	520	3000	3.8	0	1.0	.0	.0	--
AUG.											
19...	2	8.6	130	24	29	7.4	0	.0	.0	.0	--
19...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
03...	1	10	180	39	10	12	0	.0	.0	.0	--

01204510 LAKE ZOAR AT RIVERSIDE, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 22...	.0	9	3.0	.0	.6	.2	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 22...	0	0	.0	.0	.0	.0	.0	.0	.0	32	8	30

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 22...	100	4.8	41300	3	0	5	9	1000	12	200	.2	10

01204800 COPPER MILL BROOK NEAR MONROE, CONN.

LOCATION.--Lat 41°21'46", long 73°13'08", Fairfield County, on right bank just upstream from twin culverts on Hammertown Road, 700 ft (210 m) upstream from mouth, 1.2 mi (1.9 km) west of State Highway 111, 2.2 mi (3.5 km) northwest of Monroe, and 2.2 mi (3.5 km) east of Botsford.

DRAINAGE AREA.--2.45 mi^2 (6.35 km^2).

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 331.05 ft (100.904 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 4.77 ft^3/s (0.135 m^3/s), 26.44 in/yr (672 mm/yr).

EXTREMES.--Current year: Maximum discharge, 145 ft^3/s (4.11 m^3/s) Apr. 3, gage height, 4.35 ft (1.326 m); minimum, 0.29 ft^3/s (0.008 m^3/s) Sept. 5, 6, 8, gage height, 0.44 ft (0.134 m).

Period of record: Maximum discharge, 255 ft^3/s (7.22 m^3/s) Feb. 2, 1973, gage height, 7.10 ft (2.164 m), from rating curve extended above 100 ft^3/s (2.83 m^3/s) on basis of computation of peak flow through culvert; minimum, 0.04 ft^3/s (0.001 m^3/s) Sept. 9-11, 1964; minimum gage height, 0.33 ft (0.101 m) Sept. 10, 11, 1964, Aug. 20, 22, 23, 1970.

PEAK DISCHARGE.--(BASE, 80 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-02	1130	3.09	86
03-19	2230	2.98	80
04-03	1430	4.35	145
09-26	1900	3.38	100

REMARKS.--Records good. Infrequent regulation at low flow. See revisions of peak discharge for water years 1959-65 in WSP 2101.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	3.2	2.1	5.9	5.7	7.1	5.4	3.3	3.3	.70	.87	.63
2	4.0	2.9	39	5.2	5.1	5.2	3.9	4.8	2.2	.60	.80	.53
3	3.3	2.7	13	4.1	4.5	4.6	52	3.9	1.7	.60	.75	.38
4	2.9	2.5	6.6	4.2	3.9	4.2	21	6.7	1.7	.55	.80	.32
5	2.5	4.0	4.9	3.8	4.3	4.2	11	17	1.9	.50	.82	.29
6	2.5	4.7	4.5	3.4	4.9	4.5	9.3	6.7	14	.50	1.0	.30
7	2.3	3.3	4.3	8.4	5.1	4.5	7.9	13	3.6	.70	5.6	.32
8	2.0	2.9	23	5.1	4.5	5.1	6.9	5.9	2.4	.60	2.3	.28
9	2.0	2.7	18	33	3.9	3.1	6.4	4.9	2.0	.55	1.5	.61
10	1.9	2.5	8.1	13	3.2	3.3	6.0	4.8	1.7	1.5	1.1	.35
11	1.9	2.4	6.2	13	3.0	3.9	5.5	4.2	1.5	2.0	.92	.32
12	2.4	3.0	5.9	11	3.0	5.1	5.2	3.9	7.5	1.5	.80	1.6
13	2.9	11	5.4	22	3.0	6.0	4.9	9.3	16	5.0	.70	2.0
14	3.0	4.8	5.1	14	3.0	4.2	4.6	8.5	4.5	15	.76	.66
15	3.0	4.0	4.6	8.5	3.0	5.1	4.6	5.1	3.0	6.0	.63	.48
16	23	3.5	13	7.1	3.5	5.4	4.3	7.3	2.7	4.0	1.1	.45
17	12	3.2	31	6.0	4.2	5.1	4.1	4.9	2.6	3.0	1.1	.45
18	6.8	3.0	10	19	5.1	4.1	3.8	4.1	2.3	2.6	.79	.41
19	5.3	2.9	7.5	21	9.6	14	4.2	3.8	1.9	2.0	.57	.70
20	4.4	3.6	6.6	13	7.9	45	3.6	3.3	1.6	2.6	.50	.86
21	3.7	7.9	6.2	8.7	6.4	13	3.3	2.9	1.4	10	.47	2.0
22	3.0	4.2	5.9	8.1	6.4	9.1	3.5	2.7	1.2	3.4	.54	1.4
23	3.0	3.0	5.2	7.1	11	8.9	3.0	2.6	.72	1.7	.44	10
24	3.0	2.9	5.2	6.7	22	8.7	7.7	2.3	1.6	1.4	1.0	22
25	3.2	2.9	12	16	21	9.3	8.1	2.1	1.0	6.3	.94	21
26	3.9	2.7	7.7	17	9.3	7.3	8.7	2.0	.88	3.0	.90	35
27	2.8	2.3	5.5	8.3	7.3	5.5	4.8	1.9	.85	2.0	.77	24
28	2.8	2.4	5.2	6.9	7.9	5.4	4.1	1.6	.85	1.5	.59	8.1
29	3.0	2.4	4.6	12	---	5.5	3.6	1.5	.85	1.2	.52	5.4
30	2.8	2.2	4.9	8.7	---	12	3.4	1.5	.75	1.0	1.6	4.3
31	3.7	---	4.2	6.4	---	6.7	---	1.7	---	.95	.82	---
TOTAL	128.0	105.7	285.4	326.6	181.7	235.1	224.8	148.2	88.20	82.95	32.00	145.14
MEAN	4.13	3.52	9.21	10.5	6.49	7.58	7.49	4.78	2.94	2.68	1.03	4.84
MAX	23	11	39	33	22	45	52	17	16	15	5.6	35
MIN	1.9	2.2	2.1	3.4	3.0	3.1	3.0	1.5	.72	.50	.44	.28
CFSM	1.69	1.44	3.76	4.29	2.65	3.09	3.06	1.95	1.20	1.09	.42	1.98
IN.	1.94	1.60	4.33	4.96	2.76	3.57	3.41	2.25	1.34	1.26	.49	2.20

CAL YR 1974 TOTAL 2017.20 MEAN 5.53 MAX 51 MIN .11 CFSM 2.26 IN 30.63
WTR YR 1975 TOTAL 1983.79 MEAN 5.44 MAX 52 MIN .28 CFSM 2.22 IN 30.12

01205000 LAKE ZOAR AT STEVENSON, CONN.

LOCATION.--Lat 41°23'00", long 73°10'18", Fairfield County, at gaging station on Housatonic River at tailrace of dam of Connecticut Light and Power Company at Stevenson, 0.2 mi (0.3 km) upstream from gaging station, and 0.4 mi (0.6 km) upstream from Eightmile Brook.

DRAINAGE AREA.--1,541 mi^2 (3,991 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1960, November 1961.
Water temperatures: October 1960 to current year.

EXTREMES.--Current year: Water temperatures: Maximum, 31.0°C Aug. 3; minimum, 1.0°C on many days in January and February.

Period of record: Water temperatures: Maximum, 32.0°C, July 17, 1968; minimum, freezing point on many days during winter months.

REMARKS.--Records furnished by the Connecticut Light and Power Company.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	12.0	5.0	2.0	1.0	2.0	5.0	12.0	20.5	24.0	28.0	21.5
2	18.5	12.0	5.0	3.0	1.0	2.0	6.0	12.0	21.0	24.0	30.0	21.5
3	17.0	11.0	5.0	2.0	1.0	2.0	5.0	12.0	21.0	24.0	31.0	21.0
4	17.0	12.0	4.0	2.0	1.0	2.0	5.0	12.0	20.0	24.0	26.0	21.0
5	17.0	12.0	4.0	2.0	2.0	2.0	5.0	12.0	20.0	24.0	26.0	21.0
6	17.0	12.0	4.0	2.0	1.0	3.0	5.0	12.0	19.0	24.0	26.0	21.0
7	17.0	11.0	4.0	3.0	1.0	3.0	5.0	13.0	18.0	24.0	23.0	21.0
8	16.0	11.0	4.0	3.0	1.0	3.0	5.0	13.0	18.0	25.0	23.0	20.0
9	16.0	11.0	4.0	3.0	1.0	3.0	5.0	13.0	18.5	24.0	23.0	20.0
10	16.0	12.0	4.0	3.0	1.0	3.0	5.0	13.0	18.5	25.0	23.0	20.0
11	16.0	11.0	4.0	3.0	1.0	3.0	5.0	13.0	18.0	23.0	24.0	20.0
12	16.0	10.0	2.0	3.0	1.0	3.0	5.0	14.5	18.0	22.0	25.0	21.0
13	16.0	10.0	2.0	3.0	1.0	3.0	5.0	15.5	18.0	22.0	26.0	21.0
14	16.0	11.0	2.0	2.5	1.0	3.0	5.0	15.5	18.0	23.0	25.0	20.0
15	15.0	11.0	2.0	2.5	1.0	3.0	5.0	15.5	19.0	23.0	25.0	20.0
16	---	11.0	2.0	2.0	1.0	3.5	5.0	15.0	18.0	23.0	24.0	20.0
17	15.0	10.5	2.0	2.0	1.0	3.5	7.0	15.0	18.0	23.0	22.0	20.0
18	15.0	10.5	2.0	2.0	1.0	3.0	7.0	15.0	18.0	27.0	23.0	18.0
19	15.0	10.0	2.0	2.0	1.0	3.0	7.0	15.5	23.0	25.0	24.0	17.0
20	14.0	9.0	2.5	1.5	1.0	4.0	7.0	18.5	21.0	25.0	23.0	17.0
21	13.0	9.0	2.5	1.0	2.0	4.0	8.0	16.5	23.0	25.0	24.0	18.0
22	13.0	9.0	2.5	2.0	2.0	3.0	8.0	17.0	24.0	25.0	23.0	19.0
23	14.0	8.0	2.5	1.0	2.0	4.0	8.0	21.5	26.0	25.0	23.0	19.0
24	14.0	8.0	3.0	1.0	2.0	5.0	8.0	24.0	25.0	25.0	22.0	19.0
25	14.0	7.5	3.0	1.0	2.0	5.0	10.0	19.0	25.0	24.0	22.0	17.5
26	14.0	7.5	2.0	1.0	2.0	5.0	10.0	19.5	26.0	24.0	23.0	16.5
27	14.5	7.0	2.0	2.0	2.0	5.0	10.0	18.5	22.0	24.0	23.0	16.0
28	14.0	7.0	2.0	1.0	2.0	5.0	10.0	19.0	21.0	24.0	22.5	16.0
29	13.0	6.0	2.0	2.0	---	5.0	11.0	20.0	---	24.0	22.0	15.5
30	11.5	5.0	2.0	1.0	---	5.0	12.0	21.0	24.0	25.0	22.0	15.5
31	12.0	---	2.0	1.0	---	5.0	---	21.0	---	25.0	21.5	---
MONTH	15.0	10.0	3.0	2.0	1.5	3.5	7.0	16.0	20.5	24.0	24.0	19.0
YEAR	MAX	31.0	MIN	1.0	MEAN	12.0						

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.
(NASQAN Station)

LOCATION.--Lat 41°23'02", long 73°10'05", New Haven County, on left bank, 0.2 mi (0.3 km) downstream from dam of Connecticut Light and Power Company at Stevenson, Fairfield County, 0.2 mi (0.3 km) upstream from Eightmile Brook, and at mile 19.2 (30.9 km).

DRAINAGE AREA.--1,541 mi^3 (3,991 km^2).

PERIOD OF RECORD.--Discharge: August 1928 to current year.
Chemical analyses: May and September 1952, April 1953, September 1955, February 1956, September 1959, November 1960, January 1963, June 1968 to current year.
Water temperatures: November 1974 to September 1975.
Sediment: October 1974 to September 1975.

GAGE.--Water-stage recorder. Datum of gage is 24.98 ft (7.614 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE (adjusted for storage and diversion).--47 years, 2,563 ft^3/s (72.58 m^3/s) 22.59 in/yr (574 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5240	2580	1730	1170	4470	5580	5110	2760	296	1100	1690	1250
2	3230	1470	5120	2290	1300	4320	4420	2910	1840	980	286	1840
3	2350	335	6330	2960	3840	4430	7350	2190	2230	1080	146	1940
4	2970	1730	5340	86	4090	4530	9890	1960	2140	771	2360	1770
5	2860	2320	4440	1080	3010	3540	9650	4260	2110	884	1900	1030
6	1800	2680	2990	1740	3320	3660	7390	3210	4220	631	1700	881
7	1690	2620	1670	2190	3120	4240	6160	4260	4300	974	2900	261
8	1140	2720	2300	2760	1370	3800	5900	4360	2170	1340	3800	682
9	893	1590	6430	4330	923	1920	5570	4020	2730	827	3200	1300
10	977	82	6330	5000	3230	3680	5730	3010	2710	1640	700	1350
11	1060	2780	6150	4330	2720	2870	4790	503	2670	896	3600	1590
12	1580	2590	5310	5290	2000	2980	4090	1970	3230	744	3800	1250
13	943	3520	3070	6340	2090	4200	3280	4640	4720	2930	3900	138
14	1960	3060	1540	6410	2190	4200	4060	6130	6480	5450	2800	164
15	215	3030	2360	5900	2240	1390	3330	6030	6150	8540	1500	1330
16	1200	1760	4020	5570	1280	1130	3050	4890	5580	7400	950	743
17	919	1340	6390	5640	2600	3320	3210	5280	4610	5450	360	886
18	463	2430	5690	4160	3110	2190	3960	3830	3370	3180	1700	1320
19	888	2970	4520	3320	2570	4210	2740	3170	3120	2570	2100	978
20	805	2720	4410	6260	3230	7640	2490	3920	3560	1690	1000	835
21	1920	2680	2950	6140	3300	9360	3190	3620	1950	5640	875	476
22	1400	2750	2190	4310	2920	8860	3360	3200	1290	9280	1360	883
23	786	3170	2700	4320	2770	8100	2920	2720	2000	7300	672	2840
24	1390	3030	2620	4200	5930	9730	4110	2410	1950	5070	281	4040
25	1990	3550	2030	4240	9820	8570	3940	1920	1650	4770	3420	7910
26	1350	3810	3440	6360	9770	6870	3720	1470	1260	3390	3190	16700
27	78	4060	3780	6120	7980	6140	1930	1960	1280	2730	98	34600
28	1260	103	3760	4240	6980	5120	3260	2390	669	3640	590	14400
29	2040	996	1200	6370	---	6120	2390	2050	516	3690	653	11900
30	895	1020	3420	5760	---	4720	2620	2930	534	3560	1570	8640
31	1420	---	2600	4720	---	5970	---	78	---	2030	939	---
TOTAL	47712	69496	116830	133606	102173	153390	133610	98051	81335	100177	54040	123927
MEAN	1539	2317	3769	4310	3649	4948	4454	3163	2711	3232	1743	4131
MAX	5240	4060	6430	6410	9820	9730	9890	6130	6480	9280	3900	34600
MIN	78	82	1200	86	923	1130	1930	78	296	631	98	138
(†)	-219	+125	+71.5	+60.6	-23.4	+80.1	+54.3	+83.0	+70.5	-45.6	+8.1	+151.3
MEAN‡	1320	2442	3840	4371	3626	5028	4508	3246	2782	3186	1751	4282
CFSM‡	0.86	1.58	2.49	2.84	2.35	3.26	2.93	2.11	1.81	2.07	1.14	2.78
IN‡	0.99	1.76	2.87	3.27	2.45	3.76	3.27	2.43	2.02	2.39	1.31	3.10

CAL YR 1974	TOTAL	1058929	MEAN	2901	MAX	9640	MIN 73	MEAN‡ 2926	CFSM‡ 1.90	IN‡ 25.74
WTR YR 1975	TOTAL	1214347	MEAN	3327	MAX	34600	MIN 78	MEAN‡ 3362	CFSM‡ 2.18	IN‡ 29.62

†Change in contents in Candlewood, Lillinonah, and Zoar Lakes, Cairns and Shepaug Reservoirs, and diversion out of basin at Shepaug Reservoir, equivalent in cubic feet per second; furnished by Connecticut Light and Power Company, city of Waterbury, and city of Danbury.

‡Adjusted for diversion and change in contents.

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

EXTREMES.--Current year: Maximum discharge, 38,500 ft^3/s (1,090 m^3/s) Sept. 27, gage height, 17.58 ft (5.358 m); minimum, 68 ft^3/s (1.93 m^3/s) Nov. 22, gage height, 0.82 ft (0.250 m); minimum daily, 78 ft^3/s (2.21 m^3/s) Oct. 27, May 31.
Specific conductance: Maximum recorded, 317 micromhos Sept. 21; minimum recorded, 115 micromhos Mar. 26.
Water temperatures: Maximum recorded, 29.0°C May 31; minimum recorded, freezing point on Mar. 4, 5.

Period of record: Maximum discharge, 75,800 ft^3/s (2,150 m^3/s) Oct. 16, 1955, gage height, 24.50 ft (7.467 m), from rating curve extended above 35,000 ft^3/s (991 m^3/s) on basis of computation of peak flow at Stevenson and Derby Dams and slope-area measurement at gage heights 21.5 and 23.5 ft (6.55 and 7.16 m); practically no flow at times, result of regulation.
Specific conductance: Maximum recorded, 317 micromhos Sept. 21, 1975; minimum recorded, 115 micromhos Mar. 26, 1975.
Water temperatures: Maximum recorded, 29.0°C May 31, 1975; minimum recorded, freezing point on Mar. 4, 5, 1975.

REMARKS.--Records excellent. Ordinary flow completely regulated by Stevenson Hydroelectric Plant. Flow regulated by Lake Candlewood, Lake Lillinonah, Lake Zoar, Cairns and Shepaug Reservoirs, (see p. 321), and by diversion out of basin at Shepaug Reservoir. See REVISIONS summary paragraph in WSP 1901.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.												
22...	1650	95	7.9	13.0	11.0	10.3	100	4.2	21	8.2	7.5	1.9
NOV.												
12...	1330	5600	7.6	9.0	9.5	9.6	88	2.6	25	10	8.2	1.7
DEC.												
04...	1320	5500	7.7	2.5	2.5	12.0	94	3.9	21	7.7	6.3	1.6
JAN.												
08...	1315	5600	8.0	8.0	3.0	14.4	107	5.6	21	8.2	8.9	3.2
FEB.												
05...	1205	5600	7.2	3.5	1.0	14.6	102	5.2	19	7.3	7.0	1.4
MAR.												
05...	1310	5700	7.4	7.5	2.0	13.6	98	4.4	17	6.0	6.7	1.5
APR.												
08...	1340	6050	7.7	7.0	5.0	13.0	102	4.4	19	7.4	--	--
MAY												
06...	1300	5400	7.7	22.5	12.0	11.0	102	3.4	21	7.5	6.1	1.3
JUNE												
10...	1300	5450	7.5	23.0	19.0	6.8	63	3.2	22	7.1	6.0	1.3
JULY												
15...	0900	8600	7.3	21.5	23.0	8.4	96	3.8	20	6.6	5.7	1.4
AUG.												
19...	1110	4400	7.6	23.0	22.5	7.9	91	4.3	28	9.8	6.6	1.5
SEP.												
03...	1115	5550	7.3	17.5	21.0	5.4	49	4.4	29	10	6.8	1.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
OCT.												
22...	83	0	68	16	11	.3	.00	.28	.21	.43	.22	.71
NOV.												
12...	101	0	83	17	11	.1	.01	.26	.19	.48	.29	.74
DEC.												
04...	78	0	64	15	9.4	.1	.02	.34	.15	.29	.14	.63
JAN.												
08...	82	0	67	15	11	.1	.00	.46	.10	.54	.44	1.0
FEB.												
05...	80	0	66	12	12	.1	.00	.55	.08	.12	.04	.67
MAR.												
05...	72	0	59	10	11	.2	.01	.52	.21	.37	.16	.89
APR.												
08...	69	0	57	10	8.2	--	.02	.50	.08	.17	.09	.67
MAY												
06...	79	0	65	12	9.4	.2	.00	--	--	--	--	--
JUNE												
10...	89	0	73	11	9.0	.1	.01	.27	.17	.38	.21	.65
JULY												
15...	84	0	69	9.3	9.6	.1	.00	.33	.05	.47	.42	.80
AUG.												
19...	112	0	92	12	11	.2	.01	.30	.14	.51	.37	.81
SEP.												
03...	113	0	93	11	11	.2	.01	.49	.01	.22	.21	.71

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL RESI-DUE (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.											
22...	3.1	.05	137	128	111	32.8	.17	86	18	190	10
NOV.											
12...	3.3	.04	142	137	125	2070	.19	100	21	216	20
DEC.											
04...	2.8	.07	124	121	104	1800	.16	84	20	190	10
JAN.											
08...	4.4	.05	117	105	114	1590	.14	86	19	210	2
FEB.											
05...	3.0	.06	109	106	104	1600	.14	78	12	180	20
MAR.											
05...	3.9	.06	109	103	92	1590	.14	67	8	165	20
APR.											
08...	3.0	.05	122	123	--	2010	.17	78	21	175	4
MAY											
06...	--	.05	125	126	100	1840	.17	83	19	175	6
JUNE											
10...	2.9	.06	128	116	104	1710	.16	84	11	185	16
JULY											
15...	3.5	.06	122	125	98	2900	.17	77	8	167	5
AUG.											
19...	3.6	.04	158	145	129	1720	.20	110	18	202	5
SEP.											
03...	3.1	.04	155	153	130	2290	.21	110	21	205	2

DATE	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	PHENOLS (UG/L)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.											
22...	2	1.7	23	22	7	6.8	0	.0	--	.4	16
NOV.											
12...	1	4.1	12	3	3	4.7	0	.0	1	.4	14
DEC.											
04...	2	2.5	1100	190	280	6.0	0	.0	--	.3	14
JAN.											
08...	1	1.3	8	<1	1	4.4	1	.0	--	.4	18
FEB.											
05...	2	8.1	11	7	13	2.6	0	.0	--	.3	16
MAR.											
05...	4	4.6	10	6	4	10	0	.0	--	.4	17
APR.											
08...	6	2.2	25	20	2	4.3	0	.0	--	--	--
MAY											
06...	2	2.5	2	1	4	1.8	0	--	--	.3	14
JUNE											
10...	2	4.5	72	13	11	5.5	0	.1	--	.3	13
JULY											
15...	3	6.7	14000	170	1100	4.2	0	.0	--	.3	14
AUG.											
19...	2	4.5	220	2	1	4.6	0	.0	--	.3	11
SEP.											
03...	1	9.1	30	10	6	5.5	0	.0	--	.3	11

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	CHLORO-PHYLL A (UG/L)
OCT.							
22...	94	2	.50	0	1	100	.0
NOV.							
12...	--	--	--	--	--	--	7.0
12...	64	4	60	--	--	--	--
27...	--	--	--	--	--	--	--
DEC.							
04...	--	--	--	--	--	--	3.3
05...	92	6	89	--	--	--	--
JAN.							
08...	100	2	30	--	--	--	2.3
FEB.							
05...	100	2	30	--	--	--	.0
MAR.							
05...	100	5	76	--	--	--	.0
APR.							
08...	82	10	163	--	--	--	.0
MAY							
06...	100	5	73	--	--	--	2.7
JUNE							
10...	100	10	47	--	--	--	.0
18...	--	--	--	--	--	--	--
JULY							
01...	--	--	--	--	--	--	--
15...	100	8	186	--	--	--	.0
AUG.							
19...	--	--	--	--	--	--	12
SEP.							
03...	--	--	--	--	--	--	.0

DATE	CHLORO-PHYLL B (UG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL A MG/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL B MG/SQ M
OCT.						
22...	.0	2800	--	--	--	--
NOV.						
12...	4.0	--	--	--	--	--
12...	--	--	--	--	--	--
27...	--	5400	--	--	--	--
DEC.						
04...	.0	--	--	--	--	--
05...	--	2300	--	--	--	--
JAN.						
08...	.3	560	--	--	--	--
FEB.						
05...	.0	1300	--	--	--	--
MAR.						
05...	.0	690	--	--	--	--
APR.						
08...	.0	1200	--	--	--	--
MAY						
06...	.0	3000	--	--	--	--
JUNE						
10...	.0	--	--	--	--	--
18...	--	1300	--	--	--	--
JULY						
01...	--	--	1.3	1.6	6.5	.5
15...	.0	2700	--	--	--	--
AUG.						
19...	.0	34000	--	--	--	--
SEP.						
03...	.0	1900	--	--	--	--

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
OCT.											
22...	--	--	--	5	--	--	--	0	--	--	--
NOV.											
12...	2	0	2	--	1	0	1	--	0	<10	<10
DEC.											
04...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
08...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
05...	0	0	0	--	0	0	0	--	0	0	0
MAR.											
05...	--	--	--	--	--	--	--	--	--	--	--
APR.											
08...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
10...	0	0	0	--	0	0	0	--	0	10	10
JULY											
15...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
19...	1	0	1	--	0	0	0	--	<10	0	<10
SEP.											
03...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT.										
22...	2	--	--	--	0	--	--	9	40	--
NOV.										
12...	--	1	0	1	0	0	0	--	50	190
DEC.										
04...	--	--	--	--	0	--	--	--	80	--
JAN.										
08...	--	--	--	--	0	--	--	--	40	--
FEB.										
05...	--	0	0	0	0	0	0	--	60	200
MAR.										
05...	--	--	--	--	0	--	--	--	90	--
APR.										
08...	--	--	--	--	0	--	--	--	70	--
MAY										
06...	--	--	--	--	10	--	--	--	40	--
JUNE										
10...	--	0	0	0	0	20	20	--	60	200
JULY										
15...	--	--	--	--	10	--	--	--	20	--
AUG.										
19...	--	0	1	1	0	0	0	--	20	140
SEP.										
03...	--	--	--	--	0	--	--	--	20	--

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 22...	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)
OCT. 22...	0	0	.0	.0	.0	.0	.0	.0	.0	2	1.7	10600

DATE	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DISSOLVED LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	DISSOLVED MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED MERCURY (HG) (UG/L)
OCT. 22...	2300	--	--	--	10	10	--	--	600	--
NOV. 12...	--	3	0	3	--	10	50	60	--	<.5
DEC. 04...	--	--	--	--	--	20	--	--	--	--
JAN. 08...	--	--	--	--	--	30	--	--	--	--
FEB. 05...	--	5	0	5	--	30	0	30	--	<.5
MAR. 05...	--	--	--	--	--	20	--	--	--	--
APR. 08...	--	--	--	--	--	40	--	--	--	--
MAY 06...	--	--	--	--	--	10	--	--	--	--
JUNE 10...	--	1	2	3	--	90	30	120	--	<.5
JULY 15...	--	--	--	--	--	20	--	--	--	--
AUG. 19...	--	0	2	2	--	0	30	30	--	<.5
SEP. 03...	--	--	--	--	--	10	--	--	--	--

DATE	SUSPENDED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DISSOLVED SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 22...	--	--	.1	--	--	--	0	--	--	16
NOV. 12...	.0	<.5	--	0	0	0	10	0	10	--
DEC. 04...	--	--	--	--	--	--	10	--	--	--
JAN. 08...	--	--	--	--	--	--	10	--	--	--
FEB. 05...	.0	<.5	--	0	2	2	<10	0	<10	--
MAR. 05...	--	--	--	--	--	--	0	--	--	--
APR. 08...	--	--	--	--	--	--	0	--	--	--
MAY 06...	--	--	--	--	--	--	10	--	--	--
JUNE 10...	.0	<.5	--	0	0	0	10	0	10	--
JULY 15...	--	--	--	--	--	--	0	--	--	--
AUG. 19...	.0	<.5	--	0	0	0	10	0	10	--
SEP. 03...	--	--	--	--	--	--	20	--	--	--

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

OCT. 22, 1974
1650 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,800 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OCCYSTACEAE			
	....ANKISTRODESMUS		42	1
	...SCENEDESMACEAE			
	....SCENEDESMUS		120	4
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
	....COSMARIUM		83	3
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		620	22
D	....MELOSIRA		1,600	57
	....STEPHANODISCUS		42	1
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
	....ASTERIONELLA		42	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		210	7
	...NITZSCHIACEAE			
	....NITZSCHIA		42	1

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.431
CLASS	0.431
ORDER	0.975
FAMILY	1.141
GENERA	1.924

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

NOV. 27, 1974
1430 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,400 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OCCYSTACEAE			
	....ANKISTRODESMUS		100	2
	...SCENEDESMACEAE			
	....SCENEDESMUS		310	6
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,600	30
D	....MELOSIRA		2,100	38
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		100	2
	...CYMBELLACEAE			
	....CYMBELLA		52	1
	...DIATOMACEAE			
	....DIATOMA		52	1
	...FRAGILARIACEAE			
	....ASTERIONELLA		310	6
	....FRAGILARIA		52	1
	....SYNEDRA		52	1
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		150	3
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		150	3
	....STAURONEIS		52	1
	...NITZSCHIACEAE			
	....NITZSCHIA		150	3
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
	..CHRYSOMONADALES			
	...MALLOMONADACEAE			
	....MALLOMONAS		52	1
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE		
	..HETEROCOCCALES			
	...CHLOROTHECIACEAE			
	....OPHIOCYTIUM		52	1
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		100	2

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%

ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.522
CLASS	0.675
ORDER	1.374
FAMILY	1.956
GENERA	2.736

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

DEC. 5, 1974
1320 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,300 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...SCENEDESMACEAE			
....SCENEDESMUS		97	4
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...COSCINODISCACEAE			
....CYCLOTELLA		150	6
....MELOSIRA		32	1
..PENNALES	PENNATE		
...ACHNANTHACEAE			
....ACHNANTHES		16	1
....COCCONEIS		16	1
...CYMBELLACEAE			
....CYMBELLA		32	1
...FRAGILARIACEAE			
....FRAGILARIA		65	3
....SYNEDRA		16	1
...GOMPHONEMATACEAE			
....GOMPHONEMA		16	1
...NAVICULACEAE	NAVICULOID		
....NAVICULA		65	3
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...OSCILLATORIACEAE			
D ....LYNGBYA		1,800	78

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.916
CLASS	0.916
ORDER	1.091
FAMILY	1.302
GENERA	1.395

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

JAN. 8, 1975
1315 HOURS

IDENTIFICATION OF PHYTOPLANKTON

560 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...OCCYSTACEAE			
....ANKISTRODESMUS		8	1
..VOLVOCALES			
...CHLAMYDOMONADACEAE			
....CHLAMYDOMONAS		8	1
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...COSCINODISCACEAE			
....CYCLOTELLA		33	6
....MELOSIRA		25	4
..PENNALES	PENNATE		
...NAVICULACEAE	NAVICULOID		
....NAVICULA		49	9
...NITZSCHIACEAE			
....NITZSCHIA		8	1
...TABELLARIACEAE			
....TABELLARIA		8	1
.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
..CHRYSOMONADALES			
...OCHROMONADACEAE			
....DINOBRYON		8	1
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...OSCILLATORIACEAE			
D ....OSCILLATORIA		410	74

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.967
CLASS	1.046
ORDER	1.296
FAMILY	1.420
GENERA	1.522

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

FEB. 5, 1975
1205 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,300 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..PENNALES	PENNATE		
...CYMBELLACEAE			
....CYMBELLA		140	10
...FRAGILARIACEAE			
....SYNEDRA		20	1
...NAVICULACEAE	NAVICULOID		
....NAVICULA		80	6
...NITZSCHIACEAE			
....NITZSCHIA		20	1
...TABELLARIACEAE			
....TABELLARIA		60	4
.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
..CHRYSOMONADALES			
...OCHROMONADACEAE			
....DINOBRYON		20	1
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...NOSTOCACEAE			
D ....ANABAENA		1,000	75

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.817
CLASS	0.899
ORDER	0.899
FAMILY	1.371
GENERA	1.371

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

MAR. 5, 1975
1310 HOURS

IDENTIFICATION OF PHYTOPLANKTON

690 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...SCENEDESMACEAE			
....SCENEDESMUS		87	13
..VOLVOCALES			
...CHLAMYDOMONADACEAE			
....CHLAMYDOMONAS		8	1
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..CENTRALES	CENTRIC		
...COSCINODISCACEAE			
....CYCLOTELLA		31	5
..PENNALES	PENNATE		
...ACHNANTHACEAE			
....ACHNANTHES		16	2
...CYMBELLACEAE			
....CYMBELLA		16	2
...DIATOMACEAE			
....DIATOMA		31	5
...FRAGILARIACEAE			
....ASTERIONELLA		16	2
....SYNEDRA		79	11
...GOMPHONEMATACEAE			
D ....GOMPHONEMA		130	20
...NAVICULACEAE	NAVICULOID		
....NAVICULA		47	7
...NITZSCHIACEAE			
....NITZSCHIA		55	8
.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
..CHRYSOMONADALES			
...OCHROMONADACEAE			
....DINOBRYON		8	1
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...NOSTOCACEAE			
D ....ANABAENA		160	23

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.300
CLASS	1.383
ORDER	1.676
FAMILY	3.085
GENERA	3.174

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

APR. 8, 1975
1340 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,200 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...SCENEDESMACEAE			
	....SCENEDESMUS		130	11
	..TETRASPORALES			
	...PALMELLACEAE			
	....GLOEOCYSTIS		52	4
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		130	11
	....MELOSIRA		26	2
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....COCCONEIS		65	5
	...FRAGILARIACEAE			
	....ASTERIONELLA		120	10
D	....FRAGILARIA		260	21
	....SYNEDRA		13	1
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		39	3
	...MERIDIONACEAE			
	....MERIDION		13	1
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		230	19
	...NITZSCHIACEAE			
	....NITZSCHIA		52	4
	...TABELLARIACEAE			
	....TABELLARIA		13	1
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
	..CHRYSOMONADALES			
	...OCHROMONADACEAE			
	....DINOBRYON		78	6

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.607
CLASS	0.934
ORDER	1.566
FAMILY	2.870
GENERA	3.296

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

MAY 6, 1975
1200 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,000 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,900	63
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		73	2
	....RHOIOCOSPHENIA		73	2
	...CYMBELLACEAE			
	....CYMBELLA		73	2
	...FRAGILARIACEAE			
D	....ASTERIONELLA		580	20
	...MERIDIONACEAE			
	....MERIDION		150	5
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		73	2
	...NITZSCHIACEAE			
	....DENTICULA		73	2

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.947
FAMILY 1.694
GENERA 1.743

JUNE 18, 1975
1300 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,300 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...CHARACIACEAE			
	....SCHROEDERIA		160	13
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		550	43
	....MELOSIRA		55	4
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		55	4
	...FRAGILARIACEAE			
	....ASTERIONELLA		55	4
D	....FRAGILARIA		270	22
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		110	9

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.559
CLASS 0.559
ORDER 1.422
FAMILY 1.901
GENERA 2.281

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

JULY 15, 1975
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,800 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...CHARACIACEAE			
L	....SCHROEDERIA			0
	...HYDRODICTYACEAE			
L	....PEDIASTRUM			0
	...OCCYSTACEAE			
L	....ANKISTRODESMUS			0
	...SCENEDESMACEAE			
L	....SCENEDESMUS			0
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
L	....CHLAMYDOMONAS			0
	...VOLVOCACEAE			
	....EUDORINA		240	9
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
L	....CYCLOTELLA			0
	....MELOSIRA		22	1
	....STEPHANODISCUS		22	1
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		22	1
L	....RHOIOCOSPHENIA			0
	...FRAGILARIACEAE			
	....FRAGILARIA		290	10
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		22	1
	...MERIDIONACEAE			
L	....MERIDION			0
	...NITZSCHIACEAE			
L	....NITZSCHIA			0
	...TABELLARIACEAE			
L	....TABELLARIA			0
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....ANACYSTIS		1,200	43
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
D	....ANABAENA		460	17
	....APHANIZOMENON		390	14
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....TRACHELOMONAS			0
	PYRRHOPHYTA			
	.DINOPHYCEAE	DINOFLAGELLATES		
	..PERIDINIALES			
	...CERATIACEAE			
	....CERATIUM		66	2

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.199
CLASS	1.199
ORDER	2.027
FAMILY	2.133
GENERA	2.466

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

AUG. 19, 1975
1110 HOURS

IDENTIFICATION OF PHYTOPLANKTON

35,000 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...HYDRODICTYACEAE			
	....PEDIASTRUM		1,700	5
	...OCCYSTACEAE			
L	....CHODATELLA			0
	....DICTYOSPHAERIUM		1,600	5
	...SCENEDESMACEAE			
	....SCENEDESMUS		610	2
	..VOLVOCALES			
	...VOLVOCACEAE			
L	....PANDORINA			0
	....PLEODORINA		3,200	9
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		300	1
	....MELOSIRA		200	1
	..PENNALES	PENNATE		
	...GOMPHONEMATACEAE			
L	....GOMPHONEMA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		810	2
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....AGMENELLUM		3,000	9
	....ANACYSTIS		1,600	5
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
D	....APHANIZOMENON		16,000	46
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		5,700	16
	PYRRHOPHYTA			
	.DINOPHYCEAE	DINOFLAGELLATES		
	..PERIDINIALES			
	...CERATIACEAE			
L	....CERATIUM			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.992
CLASS	0.992
ORDER	1.741
FAMILY	2.433
GENERA	2.571

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON--continued

SEP. 3, 1975
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,900 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...CHARACIACEAE			
L	....SCHROEDERIA			0
	...SCENEDESMACEAE			
	....ACTINASTRUM		280	14
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		17	1
	...VOLVOCACEAE			
	....PANDORINA		280	14
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		150	8
D	....MELOSIRA		860	44
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		17	1
	...FRAGILARIACEAE			
D	....FRAGILARIA		290	15
L	....SYNEDRA			0
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		17	1
	...NAVICULACEAE	NAVICULOID		
L	....NAVICULA			0
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
L	....ANACYSTIS			0
	PYRRHOPHYTA			
	.DINOPHYCEAE	DINOFLAGELLATES		
	..PERIDINIALES			
	...CERATIACEAE			
	....CERATIUM		34	2

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.991
CLASS	0.991
ORDER	1.835
FAMILY	1.983
GENERA	2.305

PERIPHYTON
(Sampling method-Polyethylene strip)

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio
July 1	27	1.6	0.8	6.5	0.5	47

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	221	207	215	---	---	---
2	---	---	---	---	---	---	222	187	213	---	---	---
3	---	---	---	---	---	---	205	186	198	---	---	---
4	---	---	---	---	---	---	186	181	182	---	---	---
5	---	---	---	---	---	---	209	181	184	---	---	---
6	---	---	---	---	---	---	209	182	190	---	---	---
7	---	---	---	---	---	---	200	182	188	---	---	---
8	---	---	---	---	---	---	213	184	197	202	197	199
9	---	---	---	---	---	---	198	179	187	210	175	200
10	---	---	---	---	---	---	179	169	175	216	204	212
11	---	---	---	---	---	---	187	179	184	216	180	185
12	---	---	---	---	---	---	189	185	186	185	183	184
13	---	---	---	---	---	---	198	187	190	---	---	---
14	---	---	---	---	---	---	199	193	195	---	---	---
15	---	---	---	---	---	---	208	193	197	---	---	---
16	---	---	---	---	---	---	206	194	199	---	---	---
17	---	---	---	---	---	---	205	174	185	---	---	---
18	---	---	---	---	---	---	173	163	169	---	---	---
19	---	---	---	---	---	---	190	161	164	---	---	---
20	---	---	---	---	---	---	190	162	166	---	---	---
21	---	---	---	---	---	---	188	164	169	---	---	---
22	---	---	---	---	---	---	182	164	172	---	---	---
23	---	---	---	---	---	---	185	165	171	---	---	---
24	---	---	---	---	---	---	177	177	177	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	224	222	223	---	---	---	---	---	---
28	---	---	---	224	206	216	---	---	---	---	---	---
29	---	---	---	225	208	219	---	---	---	---	---	---
30	---	---	---	223	205	217	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	192	172	180	168	144	149	213	186	191
2	---	---	---	213	163	173	177	147	153	198	184	188
3	---	---	---	189	125	163	164	146	150	197	181	188
4	---	---	---	200	125	159	149	148	149	196	181	186
5	---	---	---	191	152	159	158	149	153	190	175	181
6	---	---	---	180	149	155	167	156	163	188	177	182
7	---	---	---	173	147	153	168	160	167	190	175	182
8	---	---	---	165	150	153	166	156	158	193	183	187
9	---	---	---	183	152	162	156	149	153	198	183	189
10	---	---	---	173	152	159	150	147	148	201	189	194
11	---	---	---	171	160	163	147	145	146	211	190	201
12	---	---	---	166	160	162	176	145	150	210	191	200
13	---	---	---	178	160	163	160	143	158	202	189	193
14	---	---	---	181	164	175	166	142	148	195	190	193
15	---	---	---	189	165	177	160	146	148	197	193	195
16	---	---	---	194	168	185	160	145	150	209	195	197
17	---	---	---	193	180	188	158	146	151	207	196	198
18	---	---	---	194	180	187	162	151	155	211	195	199
19	---	---	---	185	180	181	175	159	167	214	195	201
20	---	---	---	195	181	189	182	162	174	210	193	201
21	---	---	---	193	181	186	184	174	179	205	190	198
22	---	---	---	195	182	189	191	175	182	205	194	198
23	---	---	---	201	194	198	194	182	188	206	189	196
24	221	207	216	198	176	189	193	180	190	207	188	196
25	224	211	220	175	155	163	203	191	195	210	187	197
26	226	211	220	155	115	149	196	190	194	210	183	192
27	225	214	222	143	138	141	204	190	193	204	186	193
28	214	193	201	182	136	141	204	190	194	201	185	191
29	---	---	---	141	138	140	205	190	195	196	184	190
30	---	---	---	174	140	144	199	187	192	195	185	189
31	---	---	---	145	141	142	---	---	---	205	190	198
MONTH	---	---	---	213	115	167	205	142	166	214	175	193

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	205	187	200	---	---	---	---	---	---	207	200	205
2	210	187	197	---	---	---	---	---	---	207	201	205
3	200	188	193	---	---	---	---	---	---	221	204	206
4	198	188	192	---	---	---	---	---	---	214	204	209
5	195	180	191	---	---	---	---	---	---	220	210	215
6	190	181	187	---	---	---	---	---	---	245	218	235
7	199	190	193	---	---	---	---	---	---	247	239	243
8	204	197	201	---	---	---	---	---	---	263	242	252
9	207	200	203	---	---	---	---	---	---	259	250	255
10	206	195	202	---	---	---	---	---	---	255	249	252
11	218	192	207	---	---	---	---	---	---	276	253	262
12	217	197	211	---	---	---	---	---	---	288	276	282
13	212	197	205	---	---	---	---	---	---	278	268	274
14	202	195	199	---	---	---	212	205	209	270	265	267
15	201	193	199	---	---	---	218	208	214	268	263	265
16	204	211	198	---	---	---	224	214	219	275	263	270
17	203	190	195	---	---	---	230	217	225	283	274	279
18	204	188	193	---	---	---	225	217	222	285	278	283
19	199	198	199	---	---	---	227	206	219	305	284	295
20	---	---	---	---	---	---	218	205	212	308	300	304
21	---	---	---	---	---	---	218	204	213	317	301	309
22	---	---	---	---	---	---	222	202	212	314	300	309
23	---	---	---	---	---	---	211	199	207	296	287	292
24	---	---	---	---	---	---	222	209	214	285	277	281
25	---	---	---	---	---	---	219	210	215	275	271	273
26	---	---	---	---	---	---	220	206	213	288	272	279
27	---	---	---	---	---	---	213	198	207	289	271	282
28	---	---	---	---	---	---	207	200	205	270	246	258
29	---	---	---	---	---	---	210	203	207	249	234	242
30	---	---	---	---	---	---	211	198	207	241	232	236
31	---	---	---	---	---	---	207	199	204	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	317	200	261
YEAR	317	115	198									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	5.0	3.0	4.0	---	---	---
2	---	---	---	---	---	---	5.0	4.0	5.0	---	---	---
3	---	---	---	---	---	---	4.5	4.0	4.0	---	---	---
4	---	---	---	---	---	---	4.0	3.0	3.5	---	---	---
5	---	---	---	---	---	---	3.0	2.0	3.0	---	---	---
6	---	---	---	---	---	---	3.0	1.0	2.5	---	---	---
7	---	---	---	---	---	---	3.5	1.5	2.5	---	---	---
8	---	---	---	---	---	---	5.0	2.5	3.5	2.0	2.0	2.0
9	---	---	---	---	---	---	2.5	2.5	2.5	3.5	2.0	2.0
10	---	---	---	---	---	---	2.5	2.5	2.5	2.0	2.0	2.0
11	---	---	---	---	---	---	2.5	1.5	2.0	2.0	1.0	1.0
12	---	---	---	---	---	---	1.5	1.5	1.5	1.0	1.0	1.0
13	---	---	---	---	---	---	2.0	1.5	1.5	---	---	---
14	---	---	---	---	---	---	3.0	1.5	2.0	---	---	---
15	---	---	---	---	---	---	3.0	1.5	2.0	---	---	---
16	---	---	---	---	---	---	2.0	1.5	2.0	---	---	---
17	---	---	---	---	---	---	2.0	2.0	2.0	---	---	---
18	---	---	---	---	---	---	2.0	2.0	2.0	---	---	---
19	---	---	---	---	---	---	2.0	1.5	2.0	---	---	---
20	---	---	---	---	---	---	2.0	1.5	2.0	---	---	---
21	---	---	---	---	---	---	2.5	1.5	2.0	---	---	---
22	---	---	---	---	---	---	3.0	2.0	2.0	---	---	---
23	---	---	---	---	---	---	3.0	1.5	2.0	---	---	---
24	---	---	---	---	---	---	2.5	2.5	2.5	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	6.0	5.5	6.0	---	---	---	---	---	---
28	---	---	---	8.0	4.0	5.5	---	---	---	---	---	---
29	---	---	---	6.0	3.5	4.5	---	---	---	---	---	---
30	---	---	---	7.0	3.0	4.5	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01205500 HOUSATONIC RIVER AT STEVENSON, CONN.--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975--continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2.5	2.5	2.5	5.0	3.5	5.0	11.5	8.5	11.0
2	---	---	---	2.5	0.5	2.5	5.0	3.5	5.0	12.0	10.0	11.0
3	---	---	---	2.5	1.0	2.5	5.0	4.5	5.0	13.5	10.0	11.5
4	---	---	---	2.5	0.0	2.0	4.5	4.0	4.5	12.0	10.5	11.5
5	---	---	---	2.5	0.0	2.0	4.0	4.0	4.0	12.5	10.5	12.0
6	---	---	---	2.5	1.0	2.0	4.5	4.0	4.5	12.5	10.5	11.5
7	---	---	---	3.0	1.0	2.5	5.0	4.5	4.5	12.5	11.0	11.5
8	---	---	---	---	---	---	5.0	4.5	4.5	13.5	11.0	12.0
9	---	---	---	---	---	---	5.0	4.5	5.0	13.5	11.0	13.0
10	---	---	---	---	---	---	5.0	4.5	5.0	15.0	12.0	13.0
11	---	---	---	---	---	---	5.0	4.5	4.5	18.0	12.0	14.0
12	---	---	---	---	---	---	5.0	3.5	4.5	15.5	11.5	13.5
13	---	---	---	---	---	---	5.0	3.5	4.5	15.0	13.0	14.5
14	---	---	---	---	---	---	5.0	3.0	4.5	15.0	15.0	15.0
15	---	---	---	---	---	---	5.0	4.5	5.0	15.5	14.5	15.0
16	---	---	---	---	---	---	6.0	4.0	5.5	16.5	14.5	15.5
17	---	---	---	---	---	---	6.5	4.0	5.5	16.0	15.0	16.0
18	---	---	---	---	---	---	6.5	4.0	6.0	16.5	14.5	16.0
19	---	---	---	---	---	---	8.5	6.0	7.0	17.0	14.5	16.5
20	---	---	---	4.0	3.5	3.5	9.0	5.0	7.5	18.0	14.5	17.0
21	---	---	---	4.0	3.5	4.0	8.0	5.0	7.0	18.5	16.0	18.0
22	---	---	---	4.0	3.0	3.5	8.5	4.0	7.0	18.5	16.5	18.0
23	---	---	---	4.5	3.5	4.0	8.5	5.0	7.5	19.0	16.0	18.5
24	1.5	1.5	1.5	6.0	4.5	5.5	9.5	7.5	8.5	20.0	17.0	18.5
25	1.5	1.5	1.5	5.5	5.0	5.5	10.0	8.5	9.5	19.5	16.5	18.0
26	1.5	1.5	1.5	5.0	5.0	5.0	10.5	8.0	9.5	20.5	16.0	18.5
27	2.0	1.5	2.0	5.0	4.5	4.5	11.0	7.5	9.5	20.0	17.0	19.0
28	2.5	2.0	2.5	4.5	4.0	4.0	11.0	6.5	10.0	20.5	16.0	19.0
29	---	---	---	4.5	4.5	4.5	11.0	8.5	10.5	20.5	16.0	18.5
30	---	---	---	4.5	4.0	4.5	12.0	7.5	10.5	20.0	16.0	19.0
31	---	---	---	5.0	4.5	4.5	---	---	---	29.0	19.0	22.5
MONTH	---	---	---	---	---	---	12.0	3.0	6.5	29.0	8.5	15.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	27.5	19.5	21.5	---	---	---	---	---	---	21.5	21.0	21.0
2	21.5	18.0	20.0	---	---	---	---	---	---	21.5	21.0	21.0
3	21.0	17.5	19.5	---	---	---	---	---	---	21.5	21.0	21.0
4	21.5	17.5	20.0	---	---	---	---	---	---	21.0	20.5	20.5
5	20.5	17.5	19.0	---	---	---	---	---	---	21.0	20.5	20.5
6	20.5	17.5	19.5	---	---	---	---	---	---	21.0	20.5	20.5
7	20.5	18.5	20.0	---	---	---	---	---	---	20.5	20.5	20.5
8	20.5	17.5	19.5	---	---	---	---	---	---	20.5	20.0	20.5
9	20.5	17.5	19.5	---	---	---	---	---	---	20.5	20.0	20.0
10	20.5	16.5	18.5	---	---	---	---	---	---	20.0	20.0	20.0
11	20.5	16.5	19.0	---	---	---	---	---	---	20.0	19.5	20.0
12	20.0	18.0	19.5	---	---	---	---	---	---	20.0	19.5	20.0
13	20.0	19.0	19.5	---	---	---	---	---	---	20.0	19.5	19.5
14	19.5	18.5	19.0	---	---	---	21.5	21.5	21.5	19.5	19.5	19.5
15	19.5	19.5	19.5	---	---	---	22.0	21.5	21.5	19.5	19.0	19.0
16	19.5	19.5	19.5	---	---	---	21.5	21.0	21.5	19.0	19.0	19.0
17	19.5	19.0	19.5	---	---	---	21.5	21.0	21.0	19.0	19.0	19.0
18	20.0	19.0	19.5	---	---	---	21.5	21.0	21.0	19.0	18.5	18.5
19	19.0	19.0	19.0	---	---	---	21.5	21.0	21.0	19.0	18.5	19.0
20	---	---	---	---	---	---	21.5	21.0	21.0	19.0	18.5	19.0
21	---	---	---	---	---	---	21.5	21.0	21.0	19.0	18.5	18.5
22	---	---	---	---	---	---	21.5	21.0	21.0	18.5	18.5	18.5
23	---	---	---	---	---	---	22.0	21.0	21.5	18.5	18.0	18.5
24	---	---	---	---	---	---	21.5	21.0	21.0	18.5	18.0	18.0
25	---	---	---	---	---	---	21.5	21.0	21.0	18.0	17.5	17.5
26	---	---	---	---	---	---	21.5	21.0	21.0	17.5	17.0	17.0
27	---	---	---	---	---	---	21.5	21.0	21.5	17.0	16.5	17.0
28	---	---	---	---	---	---	21.5	21.0	21.0	16.5	16.0	16.5
29	---	---	---	---	---	---	21.5	21.0	21.0	16.0	15.5	16.0
30	---	---	---	---	---	---	22.0	21.0	21.0	16.0	15.5	16.0
31	---	---	---	---	---	---	21.5	21.0	21.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	21.5	15.5	19.0
YEAR	29.0	0.0	11.5									

01205551 HOUSATONIC RIVER AT SHELTON, CONN.

LOCATION.--Lat 41°19'09", long 73°05'30", on Fairfield-New Haven County line, at bridge on Bridge Street, between Shelton and Derby.

DRAINAGE AREA.--1,576 mi^2 (4,082 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA). (MG/L)
OCT.												
23...	1230	7.8	16.5	11.5	9.9	98	3.7	0	40	30	20	24
NOV.												
13...	1105	7.6	9.5	9.0	11.0	95	2.5	0	60	10	10	24
DEC.												
05...	1135	7.7	3.0	2.0	12.8	94	4.1	0	70	10	10	20
JAN.												
09...	1130	7.9	6.5	2.5	13.8	101	5.5	0	50	20	10	21
FEB.												
11...	1310	7.1	-.5	2.0	13.3	96	5.0	0	60	30	10	20
MAR.												
05...	1410	7.2	11.0	3.0	13.8	102	4.2	0	70	20	0	17
APR.												
08...	1435	7.6	8.0	5.0	13.2	103	4.4	10	40	30	10	19
MAY												
07...	1215	7.6	22.5	12.0	11.3	105	3.4	0	50	10	10	19
JUNE												
11...	1230	7.7	25.5	20.0	8.8	81	2.9	0	60	50	20	22
JULY												
15...	1015	7.3	25.5	22.0	8.2	93	4.0	10	40	30	10	21
AUG.												
19...	1305	7.6	26.5	22.5	8.5	98	4.4	0	10	20	10	32
SEP.												
03...	1240	7.6	19.0	21.0	9.0	100	4.2	0	20	10	10	27

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.											
23...	8.6	90	0	74	17	22	.01	.30	.29	.37	1.8
NOV.											
13...	10	98	0	80	16	11	.01	.27	.18	.23	.53
DEC.											
05...	7.6	80	0	66	15	9.1	.02	.35	.15	.19	.41
JAN.											
09...	7.8	86	0	71	16	12	.01	.48	.09	.12	.26
FEB.											
11...	7.1	74	0	61	14	13	.01	.58	.11	.14	.22
MAR.											
05...	6.0	67	0	55	11	11	.01	.53	.19	.24	.39
APR.											
08...	7.4	71	0	58	11	9.6	.00	.45	.08	.10	.31
MAY											
07...	6.7	78	0	64	11	8.8	.01	.36	.05	.06	.32
JUNE											
11...	7.3	91	0	75	12	9.9	.01	.29	.11	.14	.29
JULY											
15...	6.4	79	0	65	9.3	9.8	.00	.35	.05	.06	.53
AUG.											
19...	10	114	0	94	10	11	.01	.32	.03	.04	.40
SEP.											
03...	9.3	111	0	91	11	10	.02	.44	.01	.01	.62

01205551 HOUSATONIC RIVER AT SHELTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.											
23...	1.5	2.1	9.3	.27	159	153	.21	95	22	235	20
NOV.											
13...	.35	.80	3.5	.05	140	134	.18	100	21	217	6
DEC.											
05...	.26	.76	3.4	.07	116	119	.16	81	16	180	20
JAN.											
09...	.17	.74	3.3	.06	130	123	.17	85	14	200	3
FEB.											
11...	.11	.80	3.5	.05	175	172	.23	79	18	200	20
MAR.											
05...	.20	.92	4.1	.06	108	105	.14	67	12	185	20
APR.											
08...	.23	.76	3.4	.06	130	119	.16	78	20	165	4
MAY											
07...	.27	.68	3.0	.05	116	111	.15	75	11	173	7
JUNE											
11...	.18	.58	2.6	.06	123	117	.16	85	10	185	17
JULY											
15...	.48	.88	3.9	.08	125	122	.17	79	14	167	3
AUG.											
19...	.37	.72	3.2	.04	147	140	.19	120	28	205	5
SEP.											
03...	.61	1.1	4.7	.04	157	141	.19	110	15	205	3

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
23...	4	2.3	12000	4300	66	12	0	.2	12	.0	--
NOV.											
13...	1	3.9	24	42	70	--	0	.0	4.0	.0	3
DEC.											
05...	3	2.6	400	86	120	4.9	1	.0	2.7	.3	--
JAN.											
09...	2	1.7	100	84	110	4.5	1	.0	2.7	.7	--
FEB.											
11...	2	9.4	1200	400	1	3.9	0	.0	.0	.0	--
MAR.											
05...	4	6.8	64	20	15	3.9	0	.0	.0	.0	--
APR.											
08...	4	2.9	140	88	11	5.2	0	.0	--	--	--
MAY											
07...	2	3.1	1000	440	23	9.4	0	.0	6.7	.0	--
JUNE											
11...	3	2.9	2000	360	16	4.0	0	.1	.3	.0	--
JULY											
15...	4	6.3	14000	680	1500	4.0	0	.0	6.0	.0	--
AUG.											
19...	3	4.6	210	100	24	4.4	0	.0	5.7	.0	--
SEP.											
03...	2	4.5	220	100	28	6.3	0	.0	1.7	.0	--

01205551 HOUSATONIC RIVER AT SHELTON, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 23...	.0	0	.0	.0	.0	.1	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 23...	0	0	.0	.0	.0	.0	.0	.0	.0	9	0	1

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 23...	100	4.2	8800	5	0	11	20	2300	27	240	.2	59

01205600 WEST BRANCH NAUGATUCK RIVER AT TORRINGTON, CONN.

LOCATION.--Lat 41°48'03", long 73°07'26", Litchfield County, on right bank just downstream from bridge on Prospect Street in Torrington, 0.5 mi (0.8 km) upstream from confluence with East Branch, and 3 mi (5 km) downstream from Stillwater Pond.

DRAINAGE AREA.--33.7 mi^2 (87.3 km^2).

PERIOD OF RECORD.--August 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 543.54 ft (165.671 m) above mean sea level. See WSP 1721 for history of change prior to May 24, 1960. May 24, 1960, to July 2, 1965, water-stage recorder, and July 3-30, 1965, non-recording gage 80 ft (24 m) upstream on right bank at present datum. July 31 to Sept. 27, 1965, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--19 years, 55.4 ft^3/s (1.569 m^3/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 8,820 ft^3/s (250 m^3/s) Sept. 26, gage height, 6.85 ft (2.088 m); minimum, 4.8 ft^3/s (0.136 m^3/s) July 8, gage height, 1.85 ft (0.564 m).

Period of record: Maximum discharge, 8,820 ft^3/s (250 m^3/s) Sept. 26, 1975; maximum gage height, 7.46 ft (2.274 m) Sept. 12, 1960; minimum daily, 0.3 ft^3/s (0.008 m^3/s) Aug. 21, Sept. 1, 1968.

Maximum discharge known, 11,900 ft^3/s (337 m^3/s) Aug. 19, 1955, by computation of peak flow over dam 3 mi (5 km) upstream; drainage area, 24.4 mi^2, (63.1 km), revised.

REMARKS.--Records good. City of Torrington diverts an average of about 4 mgd (0.18 m^3/s) for municipal supply from North Pond, Whist Pond, and Reuben Hart Reservoir. Occasional regulation at low flow by Stillwater Pond. High flow regulated by Hall Meadow Brook Detention Reservoir (see station 01205560).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	75	33	44	71	112	103	40	31	16	17	19
2	34	46	101	44	62	89	96	43	28	13	17	18
3	25	36	118	38	56	78	628	46	25	11	17	18
4	21	37	81	38	50	68	478	76	24	7.5	20	18
5	20	54	60	37	51	59	340	152	27	7.5	18	17
6	19	70	52	33	51	58	245	100	59	10	22	16
7	18	55	46	39	51	59	190	131	54	7.9	54	16
8	14	43	290	37	47	89	135	98	44	7.2	86	16
9	14	35	270	86	48	71	100	73	36	17	104	20
10	14	33	153	100	45	60	86	89	31	33	52	13
11	9.5	33	115	158	40	56	80	115	29	17	33	10
12	8.4	34	93	285	40	59	73	112	73	19	26	14
13	12	101	82	250	45	80	68	642	109	59	21	13
14	13	85	76	162	40	89	63	315	78	252	18	10
15	12	63	73	119	40	71	59	170	75	100	17	9.8
16	57	53	73	98	39	62	58	132	73	38	17	9.8
17	89	45	109	82	38	69	54	164	68	28	17	9.8
18	52	43	103	89	42	78	49	156	63	24	17	9.8
19	33	41	78	140	49	180	52	152	59	21	17	12
20	28	47	68	115	54	978	59	135	54	81	17	11
21	23	123	62	116	50	395	52	121	52	117	16	11
22	19	102	60	89	48	315	43	109	49	37	16	10
23	20	68	56	71	69	250	40	100	47	28	16	25
24	18	56	55	65	250	235	65	89	43	25	17	379
25	21	55	59	91	320	240	89	72	39	52	17	727
26	24	50	54	183	195	175	80	58	37	31	17	1750
27	24	41	47	118	183	135	65	50	35	34	16	1460
28	22	42	47	93	140	106	55	37	29	33	16	546
29	21	41	43	98	---	98	49	31	22	27	16	444
30	20	37	43	115	---	115	45	30	19	22	53	294
31	83	---	44	91	---	122	---	32	---	19	22	---
TOTAL	842.9	1644	2644	3124	2214	4651	3599	3670	1412	1194.1	829	5926.2
MEAN	27.2	54.8	85.3	101	79.1	150	120	118	47.1	38.5	26.7	198
MAX	89	123	290	285	320	978	628	642	109	252	104	1750
MIN	8.4	33	33	33	38	56	40	30	19	7.2	16	9.8

CAL YR 1974 TOTAL 23109.7 MEAN 63.3 MAX 413 MIN 4.3
WTR YR 1975 TOTAL 31750.2 MEAN 87.0 MAX 1750 MIN 7.2

01205700 EAST BRANCH NAUGATUCK RIVER AT TORRINGTON, CONN.

LOCATION.--41°48'12", long 73°07'06", Litchfield County, on upstream side of Wall Street bridge in Torrington, 0.3 mi (0.5 km) downstream from Troy Brook, and 0.6 mi (1.0 km) upstream from confluence with West Branch.

DRAINAGE AREA.--13.7 mi^2 (35.5 km^3).

PERIOD OF RECORD.--August 1956 to current year.

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 539.26 ft (164.366 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage since October 1965).--19 years, 24.1 ft^3/s (0.683 m^3/s), 23.88 in/yr (607 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,480 ft^3/s (41.9 m^3/s) Sept. 26, gage height, 4.83 ft (1.472 m); minimum observed, 1.5 ft^3/s (0.042 m^3/s) July 6, gage height, 0.88 ft (0.268 m).

Period of record: Maximum discharge, 1,500 ft^3/s (42.5 m^3/s) Aug. 5, 1969, gage height, 4.85 ft (1.478 m); minimum observed, 0.3 ft^3/s (0.008 m^3/s) Aug. 19, 1963, and Aug. 24, 1964; minimum gage height observed, 0.86 ft (0.262 m) Aug. 24, 1964.

Flood of Aug. 19, 1955 reached a discharge of 6,200 ft^3/s (176 m^3/s) at site 2.5 mi (4.0 km) upstream, drainage area 9.30 mi^2 (15.0 km^2).

REMARKS.--Records good. Flow regulated by Lake Winchester, and by East Branch Detention Reservoir (see p.321). See REVISIONS summary paragraph in WSP 1901.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	22	15	20	29	36	38	17	17	5.5	10	9.7
2	19	17	60	19	27	31	34	19	16	3.4	8.9	8.5
3	16	14	55	18	25	29	164	18	13	3.0	8.1	7.6
4	14	18	34	18	20	23	150	36	16	3.0	14	7.6
5	12	20	26	15	21	24	125	41	14	2.3	9.7	5.2
6	11	27	24	24	28	23	57	27	57	1.6	8.5	4.9
7	9.6	21	22	18	23	22	47	60	27	2.2	46	4.2
8	9.6	18	112	19	22	30	39	32	20	3.0	50	3.9
9	8.6	17	130	64	22	25	36	26	18	3.4	39	6.8
10	8.1	14	55	35	20	21	32	29	16	9.7	20	5.2
11	7.7	14	44	88	20	21	29	29	14	7.2	18	3.9
12	6.7	14	38	98	25	22	26	31	57	9.7	14	11
13	6.4	50	34	105	24	29	25	150	92	26	12	9.3
14	6.7	26	31	68	20	26	24	146	44	234	11	5.5
15	6.7	22	27	47	18	27	22	52	30	105	10	5.5
16	40	20	25	41	17	22	22	57	26	36	10	4.2
17	36	18	57	40	18	27	22	39	26	28	11	4.2
18	24	17	41	105	18	26	20	31	22	20	11	3.6
19	19	16	31	70	29	81	22	27	20	18	9.3	8.1
20	17	17	28	47	21	201	21	24	17	20	7.6	6.2
21	17	64	26	39	20	156	20	22	14	108	6.8	5.5
22	16	34	26	36	21	135	18	31	12	40	8.1	5.5
23	15	23	24	26	35	72	17	24	11	26	6.2	24
24	14	21	22	27	140	60	28	20	9.3	21	8.5	76
25	17	21	22	52	168	72	29	19	8.1	43	8.1	150
26	16	21	20	72	88	54	29	17	7.6	24	7.6	498
27	14	18	22	41	50	47	23	16	6.8	18	6.8	296
28	14	17	22	35	41	49	21	17	5.8	17	6.2	240
29	14	17	20	39	---	34	20	14	6.8	16	4.2	222
30	14	16	21	50	---	55	18	14	8.1	13	34	204
31	55	---	20	34	---	43	---	17	---	11	13	---
TOTAL	510.1	654	1134	1410	1010	1523	1178	1102	651.5	878.0	437.6	1846.1
MEAN	16.5	21.8	36.6	45.5	36.1	49.1	39.3	35.5	21.7	28.3	14.1	61.5
MAX	55	64	130	105	168	201	164	150	92	234	50	498
MIN	6.4	14	15	15	17	21	17	14	5.8	1.6	4.2	3.6
(†)	0	0	0	0	0	-0.1	0	0	0	0	0	+7.5
MEAN‡	16.5	21.8	36.6	45.5	36.1	49.0	39.3	35.5	21.7	28.3	14.1	69.0
CFSM‡	1.20	1.59	2.67	3.32	2.64	3.58	2.87	2.59	1.58	2.07	1.03	5.04
IN‡	1.38	1.77	3.08	3.83	2.75	4.13	3.20	2.99	1.76	2.39	1.19	5.62

CAL YR 1974	TOTAL 8915.3	MEAN 24.4	MAX 155	MIN 1.8	MEAN‡ 24.4	CFSM‡ 1.78	IN‡ 24.57
WTR YR 1975	TOTAL 12334.3	MEAN 33.8	MAX 498	MIN 1.6	MEAN‡ 34.4	CFSM‡ 2.51	IN‡ 34.09

†Change in contents in Lake Winchester and East Branch Detention Reservoir, equivalent in cubic feet per second; records for East Branch Detention Reservoir furnished by Corps of Engineers.

‡Adjusted for change in contents.

01206650 NAUGATUCK RIVER NEAR THOMASTON, CONN.

LOCATION.--Lat 41°41'15", long 73°03'59", Litchfield County, at bridge on State Highway 222, 0.5 mi (0.8 km) downstream from Thomaston Dam and 1.0 mi (1.6 km) northeast of Thomaston.

DRAINAGE AREA.--96.4 mi^2 (249.7 km^2).

PERIOD OF RECORD.--Chemical analyses: July to September 1975.
Water temperatures: July to September 1975.

EXTREMES.--Current year: Specific conductance: Maximum recorded, 205 micromhos Aug. 6; minimum recorded, 42 micromhos Sept. 29.
Water temperatures: Maximum recorded, 29.5°C Aug. 3; minimum, probably freezing point on several days during winter months.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	198	182	190	158	143	151
2	---	---	---	---	---	---	198	186	194	165	155	160
3	---	---	---	---	---	---	200	186	195	162	159	160
4	---	---	---	---	---	---	203	190	198	172	157	164
5	---	---	---	---	---	---	203	199	201	174	161	169
6	---	---	---	---	---	---	205	192	200	179	166	172
7	---	---	---	---	---	---	202	159	184	183	166	175
8	---	---	---	---	---	---	166	148	159	181	172	177
9	---	---	---	---	---	---	148	138	143	178	167	173
10	---	---	---	---	---	---	151	142	147	167	164	165
11	---	---	---	---	---	---	161	145	153	173	160	167
12	---	---	---	---	---	---	168	152	161	171	166	169
13	---	---	---	---	---	---	174	158	168	172	165	169
14	---	---	---	---	---	---	181	166	175	167	154	161
15	---	---	---	---	---	---	189	170	182	157	150	154
16	---	---	---	---	---	---	192	179	188	157	148	154
17	---	---	---	---	---	---	193	190	192	161	147	153
18	---	---	---	---	---	---	191	189	190	159	147	153
19	---	---	---	---	---	---	189	181	186	157	148	151
20	---	---	---	---	---	---	192	181	188	160	156	158
21	---	---	---	---	---	---	197	185	193	158	145	151
22	---	---	---	---	---	---	202	192	198	146	140	143
23	---	---	---	160	149	156	202	192	198	143	134	138
24	---	---	---	170	147	159	204	195	201	130	86	111
25	---	---	---	168	147	157	204	199	204	85	67	77
26	---	---	---	157	145	150	197	188	191	85	65	74
27	---	---	---	172	145	160	194	186	189	78	57	68
28	---	---	---	172	154	166	197	186	192	61	44	54
29	---	---	---	180	166	173	200	187	194	70	42	58
30	---	---	---	187	171	180	195	160	179	75	63	71
31	---	---	---	192	175	186	156	144	147	---	---	---
MONTH	---	---	---	---	---	---	205	138	183	183	42	140
YEAR	205	42	162									

01206650 NAUGATUCK RIVER NEAR THOMASTON, CONN.--continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	28.0	24.0	26.0	22.0	20.5	21.0
2	---	---	---	---	---	---	28.5	24.5	26.0	22.0	20.5	21.5
3	---	---	---	---	---	---	29.5	25.5	27.0	23.5	21.0	22.0
4	---	---	---	---	---	---	26.0	25.0	25.5	23.0	20.5	21.5
5	---	---	---	---	---	---	27.0	23.5	25.0	24.5	21.0	22.0
6	---	---	---	---	---	---	25.0	22.5	24.0	23.5	22.0	22.5
7	---	---	---	---	---	---	22.5	18.0	20.0	25.0	22.0	23.0
8	---	---	---	---	---	---	18.5	17.5	18.0	25.0	22.5	23.5
9	---	---	---	---	---	---	19.0	17.0	18.0	25.0	22.0	23.5
10	---	---	---	---	---	---	20.0	18.5	19.5	23.5	20.5	22.0
11	---	---	---	---	---	---	22.0	20.0	21.0	22.0	19.0	20.0
12	---	---	---	---	---	---	23.0	21.0	22.0	19.5	18.0	19.0
13	---	---	---	---	---	---	23.5	21.5	22.5	19.5	17.5	18.0
14	---	---	---	---	---	---	25.0	22.5	23.5	18.0	15.5	17.0
15	---	---	---	---	---	---	25.0	22.5	23.5	17.0	14.0	15.5
16	---	---	---	---	---	---	23.5	21.5	22.5	16.0	14.0	15.0
17	---	---	---	---	---	---	21.0	20.5	21.0	18.5	14.5	16.0
18	---	---	---	---	---	---	23.0	20.5	21.5	17.5	16.0	16.5
19	---	---	---	---	---	---	22.5	19.5	20.5	17.5	16.5	17.0
20	---	---	---	---	---	---	24.5	20.5	22.0	18.5	17.5	18.0
21	---	---	---	---	---	---	23.5	20.5	21.5	19.0	18.0	18.5
22	---	---	---	---	---	---	25.0	20.0	22.5	20.0	18.0	19.0
23	---	---	---	25.0	24.5	25.0	25.0	21.0	22.5	18.5	17.5	18.0
24	---	---	---	26.0	24.5	25.0	21.5	21.0	21.5	17.5	15.0	16.5
25	---	---	---	25.0	23.5	24.0	21.5	20.0	20.5	15.0	14.5	14.5
26	---	---	---	23.5	22.0	22.5	21.5	20.0	21.0	15.5	14.5	15.0
27	---	---	---	22.0	20.5	21.5	24.5	20.5	22.0	16.0	15.5	15.5
28	---	---	---	23.5	21.0	22.0	25.0	21.0	22.5	15.5	15.0	15.5
29	---	---	---	23.5	21.5	22.5	24.5	21.0	22.5	15.0	14.5	15.0
30	---	---	---	24.0	21.5	22.5	23.0	21.5	22.0	15.0	14.5	15.0
31	---	---	---	26.0	22.5	24.0	22.5	21.0	22.0	---	---	---
MONTH	---	---	---	---	---	---	29.5	17.0	22.5	25.0	14.0	18.5
YEAR	29.5	14.0	21.0									

01206900 NAUGATUCK RIVER AT THOMASTON, CONN.

LOCATION.--Lat 41°40'25", long 73°04'12", Litchfield County, on left bank at downstream side of bridge on U.S. Highways 6 and 202 at Thomaston, 1.5 mi (2.4 km) downstream from Thomaston Reservoir, 2.5 mi (4.0 km) upstream from Branch Brook, and at mile 29.5 (47.5 km).

DRAINAGE AREA.--99.2 mi^2 (256.9 km^2).

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 354.39 ft (108.018 m) above mean sea level.

AVERAGE DISCHARGE (adjusted for storage).--16 years, 191 ft^3/s (5.409 m^3/s), 26.15 in/yr (664 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,810 ft^3/s (108 m^3/s) Sept. 29, gage height, 5.61 ft (1.710 m); minimum, 16 ft^3/s (0.45 m^3/s) June 11, gage height, 1.54 ft (0.469 m).

Period of record: Maximum discharge, 5,140 ft^3/s (146 m^3/s) Mar. 31, 1960, gage height, 6.25 ft (1.905 m); minimum, 6.6 ft^3/s (0.19 m^3/s) Sept. 20, 1964, gage height, 1.39 ft (0.424 m); minimum daily, 8.4 ft^3/s (0.24 m^3/s) Sept. 14, 21, 27, 28, 1964.

Flood of Aug. 19, 1955, reached a stage of 27.0 ft (8.23 m), from floodmarks by Corps of Engineers, discharge, 53,400 ft^3/s (1,510 m^3/s), from indirect measurements of peak flow on Naugatuck River, 71.9 mi^2 (186.2 km^3), and Leadmine Brook, 24.0 mi^2 (62.2 km^2), adjusted for intervening drainage area.

REMARKS.--Records excellent. Slight diurnal fluctuation at low flow. Flow regulated by Thomaston Reservoir, Hall Meadow Brook and East Branch Detention Reservoirs and Lake Winchester (see p.321).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	693	346	139	154	262	356	314	146	113	52	65	82
2	294	165	139	156	214	295	274	158	103	46	60	64
3	151	145	137	139	189	250	331	167	88	39	56	57
4	121	137	137	140	165	216	1630	190	80	37	56	53
5	106	159	137	129	169	194	1960	414	82	34	59	48
6	94	241	137	115	179	191	585	340	267	35	56	46
7	85	197	137	131	180	191	411	379	255	37	99	45
8	79	162	137	128	159	241	326	352	167	40	237	44
9	73	142	137	273	159	209	298	261	132	42	403	54
10	69	131	137	450	153	181	272	234	110	109	197	51
11	68	119	137	379	144	177	210	249	86	94	124	45
12	65	119	134	932	146	175	222	258	170	72	98	47
13	61	281	134	1010	143	249	213	615	660	119	80	64
14	59	310	134	1410	158	253	199	1170	438	430	70	56
15	59	212	134	249	137	214	189	711	184	1660	62	47
16	195	178	134	308	133	196	194	369	186	695	59	45
17	388	154	351	288	134	216	177	364	187	108	61	41
18	240	142	412	280	142	224	171	344	172	107	60	47
19	157	139	295	838	173	243	168	309	156	105	56	48
20	126	139	161	432	191	1270	176	276	140	223	51	55
21	110	336	185	317	180	2340	165	206	126	445	48	53
22	100	390	197	295	172	1390	152	224	110	433	48	50
23	93	254	188	255	242	606	131	208	101	232	46	82
24	90	190	182	225	491	367	188	191	95	130	45	298
25	88	165	194	276	1530	719	300	191	86	205	51	1810
26	103	170	188	527	1680	502	273	159	79	189	52	1910
27	99	142	164	518	430	354	224	118	73	134	51	426
28	90	140	167	421	374	282	192	115	68	113	47	1750
29	83	131	155	340	---	264	171	101	64	94	44	3250
30	90	139	155	427	---	329	156	89	59	80	149	3500
31	276	---	152	363	---	389	---	118	---	69	139	---
TOTAL	4405	5675	5327	11905	8429	13083	10272	9026	4637	6208	2729	14168
MEAN	142	189	172	384	301	422	342	291	155	200	88.0	472
MAX	693	390	412	1410	1680	2340	1960	1170	660	1660	403	3500
MIN	59	119	134	115	133	175	131	89	59	34	44	41
(†)	-11.4	-3.7	+0.3	+1.6	+1.5	-2.0	-1.2	-0.3	-1.2	+0.3	+1.5	+100.0
MEAN‡	131	185	172	386	302	420	341	291	154	200	89.5	572
CFSM‡	1.32	1.86	1.73	3.89	3.04	4.23	3.44	2.93	1.55	2.02	0.90	5.77
IN‡	1.52	2.08	1.99	4.48	3.17	4.88	3.84	3.38	1.73	2.33	1.04	6.44

CAL YR 1974 TOTAL 69892 MEAN 191 MAX 1250 MIN 11 MEAN‡ 191 CFSM‡ 1.93 IN‡ 26.27
WTR YR 1975 TOTAL 95864 MEAN 263 MAX 3500 MIN 34 MEAN‡ 270 CFSM‡ 2.72 IN‡ 36.88

†Change in contents in Hall Meadow Brook and East Branch Detention Reservoirs, Lake Winchester, and Thomaston Reservoir, equivalent in cubic feet per second; reservoir records furnished by Corps of Engineers.

‡Adjusted for change in contents.

01208013 BRANCH BROOK NEAR THOMASTON, CONN.

LOCATION.--Lat 41°39'13", long 73°05'43", Litchfield County, on right bank 140 ft (43 m) upstream from U.S. Highway 6, and 1.7 mi (2.9 km) southwest of Thomaston.

DRAINAGE AREA.--21.3 mi^2 (55.2 km^2).

PERIOD OF RECORD.--June 1971 to December 1974, at station 01208012, 0.5 mi (0.8 km) upstream. December 1974 to September 1975.

GAGE.--Water-stage recorder. Altitude of gage is 355 ft (108 m), from topographic map. Prior to December 1974, at datum 377.21 ft (114.974 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 795 ft^3/s (22.5 m^3/s) Sept. 28, gage height, 4.05 ft (1.234 m); minimum, 0.7 ft^3/s (0.020 m^3/s) Aug. 29, gage height, 0.91 ft (0.277 m).

Period of record: Maximum discharge, 795 ft^3/s (22.5 m^3/s) Sept. 28, 1975, gage height, 4.05 ft (1.234 m); minimum, 0.7 ft^3/s (0.020 m^3/s) June 22, 1973, July 16, 1974, Aug. 29, 1975.

REMARKS.--Records good. Flow regulated by Black Rock Reservoir immediately upstream and by storage by city of Waterbury in Pitch, Morris, and Wigwam Reservoirs further upstream (see p.321).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	27	16	36	50	66	52	18	21	13	6.6	11
2	46	23	140	40	43	57	44	36	17	14	13	9.3
3	41	22	135	26	35	46	125	37	12	15	15	7.6
4	37	20	74	26	27	37	334	57	15	17	14	12
5	37	22	34	27	31	33	103	104	19	17	8.6	15
6	39	31	26	20	35	34	84	56	62	21	9.8	7.6
7	32	23	27	18	31	34	68	87	36	20	33	12
8	26	22	126	15	29	50	57	56	34	9.3	34	21
9	26	20	178	98	30	34	47	40	26	10	52	17
10	24	19	84	87	25	27	36	45	24	32	36	16
11	24	16	62	191	24	28	35	42	21	38	25	11
12	26	16	52	198	23	33	35	44	101	22	19	12
13	29	60	47	200	23	58	39	101	220	68	14	8.1
14	18	40	45	131	18	42	30	88	90	193	13	8.0
15	17	28	45	82	20	39	27	53	60	446	11	8.1
16	68	24	45	68	23	37	30	66	46	414	15	8.0
17	66	23	88	56	22	42	30	53	42	65	11	8.0
18	52	19	61	80	24	37	22	41	37	42	12	8.0
19	38	16	40	160	35	53	27	34	34	29	12	8.5
20	31	19	45	111	44	91	28	27	28	28	12	10
21	23	94	41	66	41	357	27	30	30	70	11	26
22	17	62	44	60	43	290	19	25	25	35	7.1	21
23	18	25	36	50	84	87	19	20	20	18	4.3	11
24	16	22	37	44	191	82	43	34	16	14	9.8	112
25	16	22	57	88	334	103	58	36	15	68	8.8	266
26	22	36	49	147	125	76	64	27	10	75	4.9	177
27	21	16	31	80	87	59	44	20	11	39	5.4	174
28	17	19	33	57	70	49	32	14	9.8	25	2.5	560
29	14	19	32	85	---	38	24	13	14	15	2.5	672
30	14	16	33	95	---	82	19	13	12	11	31	383
31	42	---	30	60	---	77	---	20	---	8.6	19	---
TOTAL	955	821	1793	2502	1567	2178	1602	1337	1107.8	1891.9	472.3	2620.2
MEAN	30.8	27.4	57.8	80.7	56.0	70.3	53.4	43.1	36.9	61.0	15.2	87.3
MAX	68	94	178	200	334	357	334	104	220	446	52	672
MIN	14	16	16	15	18	27	19	13	9.8	8.6	2.5	7.6

CAL YR 1974 TOTAL 10985.75 MEAN 30.1 MAX 242 MIN .70
WTR YR 1975 TOTAL 18847.20 MEAN 51.6 MAX 672 MIN 2.5

01208420 HOP BROOK NEAR NAUGATUCK, CONN.

LOCATION.--Lat 41°30'21", long 73°03'31", New Haven County, on left bank 30 feet (9 m) downstream from Porter Avenue bridge at the borough of Naugatuck golf course, 400 feet (120 m) east of State Highway 63, 0.8 mile (1.3 km) downstream from Hop Brook Lake, 1.4 mi (2.3 km) north of Naugatuck, and 0.6 mi (1.0 km) upstream from mouth.

DRAINAGE AREA.--16.3 mi^2 (42.2 km^2).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 206.29 ft (62.877 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 36.3 ft^3/s (1.028 m^3/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 520 ft^3/s (14.7 m^3/s) Sept. 28, gage height, 3.92 ft (1.195 m); minimum, 1.2 ft^3/s (0.034 m^3/s) June 23, 24; gage height, 1.28 ft (0.390 m).

Period of record: Maximum discharge, 535 ft^3/s (15.2 m^3/s) Dec. 22, 1973, gage height, 3.95 ft (1.204 m); minimum, 0.06 ft^3/s (0.002 m^3/s) Aug. 20, 23, 1970, gage height, 0.33 ft (0.101 m).

Flood of August 19, 1955, reached a discharge of 2,650 ft^3/s (75.0 m^3/s), by computation of peak flow by flow-through-culvert method.

REMARKS.--Records good except those for no gage-height record Aug. 12 to Sept. 10, which are fair. Flow regulated by Hop Brook Lake (see p.322).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	27	16	33	32	36	39	22	16	5.5	8.8	10
2	27	21	215	32	29	32	33	27	14	4.7	8.4	7.0
3	22	18	101	26	27	29	87	27	10	4.0	7.3	5.5
4	18	20	52	26	29	29	259	33	12	3.2	7.3	4.5
5	16	25	37	24	30	29	72	57	11	2.6	8.0	6.0
6	15	31	33	21	29	30	55	35	63	2.3	6.6	4.5
7	14	22	31	30	26	32	48	61	31	2.5	29	3.5
8	12	19	108	29	24	24	43	37	18	3.4	18	8.0
9	11	17	117	124	27	24	39	29	14	4.1	14	6.0
10	11	16	57	72	21	26	36	29	12	3.7	8.8	4.5
11	9.8	15	44	83	28	32	34	27	9.8	4.0	6.6	5.5
12	9.8	17	39	77	31	41	32	25	38	42	7.0	9.1
13	9.8	53	37	120	26	36	29	47	84	410	7.0	16
14	9.3	31	35	92	22	30	29	39	35	410	7.0	8.9
15	9.8	24	32	66	22	29	28	29	23	363	7.0	6.9
16	86	21	38	53	25	32	26	35	19	68	9.0	6.9
17	64	20	112	38	28	33	26	29	18	29	5.0	6.5
18	33	18	64	73	48	29	23	24	16	21	4.0	5.7
19	24	18	44	113	40	37	24	22	13	16	3.0	6.4
20	20	21	38	74	36	177	23	20	10	21	2.5	8.6
21	18	64	36	46	35	204	20	84	8.4	90	2.5	8.7
22	16	38	35	41	57	59	19	44	8.4	33	2.5	9.2
23	16	27	32	39	126	54	18	28	3.0	18	3.5	48
24	15	24	33	103	142	51	49	23	2.8	14	2.5	122
25	18	24	54	78	60	59	68	20	3.3	58	4.0	193
26	23	22	44	50	47	46	52	18	3.0	70	2.5	74
27	18	18	32	44	42	37	34	17	7.3	27	2.5	127
28	15	19	31	64	40	34	29	15	6.9	18	2.5	395
29	15	19	29	50	---	34	27	12	7.3	15	2.5	449
30	15	17	30	40	---	60	24	10	7.0	12	20	206
31	37	---	30	36	---	50	---	12	---	9.8	15	---
TOTAL	664.5	726	1636	1797	1129	1455	1325	937	524.2	1784.8	234.3	1771.9
MEAN	21.4	24.2	52.8	58.0	40.3	46.9	44.2	30.2	17.5	57.6	7.56	59.1
MAX	86	64	215	124	142	204	259	84	84	410	29	449
MIN	9.3	15	16	21	21	24	18	10	2.8	2.3	2.5	3.5

CAL YR 1974 TOTAL 11604.25 MEAN 31.8 MAX 257 MIN .50
WTR YR 1975 TOTAL 13984.70 MEAN 38.3 MAX 449 MIN 2.3

01208500 NAUGATUCK RIVER AT BEACON FALLS, CONN.

LOCATION.--Lat 41°26'32", long 73°03'47", New Haven County, on left bank at downstream side of bridge on Bridge Street at Beacon Falls, 0.4 mi (0.6 km) upstream from Bronson Brook, and at mile 10.1 (16.2 km).

DRAINAGE AREA.--259 mi^2 (671 km^2).

PERIOD OF RECORD.--Discharge: June 1918 to September 1924, September 1928 to September 1955, published as "near Naugatuck," October 1955 to current year.

Chemical analyses: September 1952, April 1953, October 1957 to July 1958, published as "near Naugatuck," November 1960, May 1961, January 1963, April 1966 to October 1967, October 1970, July 1974 to current year.
Water temperatures: September 1965 to October 1967.

GAGE.--Water-stage recorder. Datum of gage is 117.28 ft (35.747 m) above mean level. Prior to Oct. 1, 1955, water-stage recorder at site 2.5 mi (4.0 km) upstream at datum 37.89 ft (11.549 m) higher. Oct. 1, 1955, to Mar. 21, 1957, nonrecording gage at present site and datum.

AVERAGE DISCHARGE (adjusted for storage and diversion).--53 years, 1918-24, 1928-75, 484 ft ^{3}/s (13.71 m^3/s), 25.38 in/yr (645 mm/yr).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1120	742	324	522	821	939	866	429	321	147	214	227
2	769	473	2060	544	710	849	752	483	297	138	196	179
3	479	392	2110	475	630	748	2170	515	249	132	182	155
4	395	373	1120	447	539	647	2960	615	258	115	183	148
5	345	438	733	428	530	592	2680	1200	246	114	189	147
6	314	565	667	399	555	574	1560	1120	845	111	173	131
7	295	499	598	459	587	570	1090	1090	696	137	372	124
8	269	426	1280	464	511	621	952	904	444	122	343	125
9	246	369	2270	1520	490	582	845	690	343	116	684	210
10	233	334	1880	1460	423	505	791	626	287	162	466	155
11	224	318	1120	1340	420	489	696	604	240	288	319	145
12	212	318	780	2110	380	531	620	604	579	317	261	253
13	208	758	785	2180	408	684	626	1110	1620	610	222	221
14	202	737	724	2490	402	689	598	1640	1060	2350	194	161
15	197	557	684	1350	395	648	561	1220	632	2990	176	151
16	934	465	768	850	405	590	545	922	474	2200	232	159
17	1040	409	1660	894	409	602	520	804	483	650	192	141
18	691	385	1250	1080	446	576	483	714	444	489	183	130
19	478	367	925	1830	566	822	483	649	396	387	166	153
20	392	408	748	1610	657	3060	488	582	344	409	156	145
21	355	863	592	1020	622	3340	453	708	297	1240	147	168
22	320	887	633	949	572	2420	415	545	261	857	150	165
23	304	636	621	852	725	1400	379	494	251	611	137	551
24	294	507	602	766	1690	1080	696	473	227	381	138	1280
25	322	474	770	1010	2750	1310	1070	582	215	860	146	2720
26	339	468	737	1620	2750	1200	952	420	196	885	152	4820
27	309	406	589	1270	1320	880	733	363	191	498	146	3150
28	291	370	556	1070	927	778	604	303	177	387	136	3160
29	274	364	525	1030	---	702	525	280	183	318	129	4050
30	262	338	510	1160	---	996	463	252	165	270	377	3750
31	624	---	516	985	---	1050	---	268	---	240	344	---
TOTAL	12737	14646	29137	34184	21640	30474	26576	21209	12421	18531	7105	27074
MEAN	411	488	940	1103	773	983	886	684	414	598	229	902
MAX	1120	887	2270	2490	2750	3340	2960	1640	1620	2990	684	4820
MIN	197	318	324	399	380	489	379	252	165	111	129	124
(†)	-42.0	-33.8	-25.2	-25.2	-26.3	-28.2	-30.2	-29.8	-38.4	-33.0	-35.2	+74.0
MEAN‡	369	454	915	1078	747	955	856	654	376	565	194	976
CFSM‡	1.42	1.75	3.53	4.16	2.88	3.69	3.31	2.53	1.45	2.18	0.75	3.77
IN‡	1.64	1.95	4.07	4.80	3.00	4.25	3.69	2.92	1.62	2.51	0.86	4.21

CAL YR 1974	TOTAL 216087	MEAN 592	MAX 2850	MIN 92	MEAN‡ 560	CFSM‡ 2.16	IN‡ 29.36
WTR YR 1975	TOTAL 255734	MEAN 701	MAX 4820	MIN 111	MEAN‡ 678	CFSM‡ 2.62	IN‡ 35.52

†Change in contents in Lake Winchester, Hall Meadow Brook, East Branch, Thomaston, Pitch, Morris and Wigwam Reservoirs, Northfield Brook, Hancock Brook, and Hop Brook Lakes, and diversion from Shepaug Reservoir, equivalent in cubic feet per second; contents and diversion figures furnished by city of Waterbury and Corps of Engineers.

‡Adjusted for diversion and change in contents.

01208500 NAUGATUCK RIVER AT BEACON FALLS, CONN.--continued

EXTREMES.--Current year: Maximum discharge, 11,800 ft^3/s (334 m^3/s) Sept. 26, gage height, 11.63 ft (3.545 m); minimum, 103 ft^3/s (2.92 m^3/s) July 6, gage height, 2.02 ft (0.616 m).

Period of record: Maximum discharge, 106,000 ft^3/s (3,000 m^3/s) Aug. 19, 1955, gage height, 25.7 ft (7.83 m) from floodmarks, from rating curve extended above 9,000 ft^3/s (255 m^3/s) on basis of slope-area measurements of peak flow at gage heights 12.4 and 25.7 ft (3.78 and 7.83 m), site and datum then in use; minimum, 24 ft^3/s (0.68 m^3/s) Oct. 21, 1935; minimum daily, 40 ft^3/s (0.11 m^3/s) Oct. 5, 12, 1930, Sept. 7, 1936; minimum gage height, present site and datum, 1.32 ft (0.402 m) Aug. 28, 1966.
Specific conductance (1966-67): Maximum recorded, 2,150 micromhos July 8, 1966; minimum recorded, 100 micromhos Apr. 2, 3, May 26, 1967.
Water temperatures: Maximum, 30.5°C July 3, 1966, Apr. 5, 1967; minimum, freezing point on many days during winter months.

Flood in November 1927 reached a stage of 14 ft (4.3 m), former site and datum, discharge, about 26,000 ft^3/s (736 m^3/s).

REMARKS.--Records excellent. Flow regulated by Lake Winchester, Hall Meadow Brook, East Branch, Thomaston, Pitch, Morris, and Wigwam Reservoirs, Northfield Brook, Black Rock, Hancock Brook, and Hop Brook Lakes (see p. 321, 322), and during low flow, by industrial plants upstream. Flow increased by diversion from Shepaug Reservoir into Naugatuck River basin. Town of Watertown diverts about 0.5 mgd (0.026 m^3/s) from Pomperaug River basin into Naugatuck River about 10 mi (16 km) upstream. See REVISIONS summary paragraph in WSP 1901.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
23...	0905	290	7.1	4.5	8.0	10.8	86	8.0	110	280	150	170
NOV.												
13...	0820	810	7.1	6.0	10.0	10.8	93	6.1	90	260	120	110
DEC.												
05...	0830	755	7.1	-1.5	.5	13.9	97	6.6	80	250	130	90
JAN.												
09...	0830	1620	7.2	5.5	5.5	12.8	101	6.7	50	100	150	100
FEB.												
11...	1010	410	6.9	-1.5	1.0	14.4	101	7.9	80	220	210	150
MAR.												
17...	1020	617	7.3	7.0	4.0	12.2	100	6.8	30	160	140	70
APR.												
09...	1020	841	7.4	3.0	5.5	12.7	100	6.7	30	190	140	70
MAY												
07...	1000	1100	7.2	14.0	12.5	11.2	105	5.3	30	140	90	60
JUNE												
11...	1030	260	7.2	22.5	18.5	9.0	85	7.5	70	270	210	140
JULY												
15...	1230	2750	7.0	26.5	22.0	8.8	100	4.9	60	210	80	100
AUG.												
19...	1532	185	7.3	24.5	25.0	9.3	112	6.8	60	160	150	60
SEP.												
03...	1455	164	7.5	20.0	21.5	10.5	109	7.1	80	180	190	60

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
23...	19	3.6	34	0	28	41	40	.03	1.8	2.7	3.5	2.6
NOV.												
13...	11	2.8	25	0	21	20	30	.07	1.1	1.1	1.4	1.8
DEC.												
05...	9.1	2.4	19	0	16	20	18	.02	.91	.74	.95	.97
JAN.												
09...	12	2.7	23	0	19	22	39	.03	.98	1.0	1.3	1.8
FEB.												
11...	11	3.5	26	0	21	26	39	.04	1.2	1.5	1.9	1.9
MAR.												
17...	9.8	2.6	21	0	17	22	38	.04	.70	.89	1.1	.94
APR.												
09...	9.5	2.7	16	0	13	19	23	.01	.73	.57	.73	.86
MAY												
07...	7.9	1.8	18	0	15	15	16	.02	.55	.57	.73	1.0
JUNE												
11...	15	2.1	34	0	28	29	35	.01	1.4	1.1	1.4	1.8
JULY												
15...	5.6	1.4	17	0	14	9.6	12	.00	.43	.35	.45	1.1
AUG.												
19...	19	3.8	42	0	34	34	41	.01	1.3	1.2	1.5	2.3
SEP.												
03...	18	4.0	42	0	34	28	36	.02	1.5	1.6	2.1	3.0

01208500 NAUGATUCK RIVER AT BEACON FALLS, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
23...	.00	4.4	19	.52	188	174	136	.24	62	34	270	20
NOV.												
13...	.70	2.9	13	.64	166	123	269	.17	39	19	185	30
DEC.												
05...	.23	1.9	8.3	.19	101	99	202	.13	33	17	154	20
JAN.												
09...	.80	2.8	12	.48	203	127	556	.17	41	22	228	20
FEB.												
11...	.40	3.1	14	.34	134	137	152	.19	42	21	240	20
MAR.												
17...	.05	1.6	7.3	.26	117	111	185	.15	35	18	223	9
APR.												
09...	.29	1.6	7.0	.22	125	110	250	.15	35	22	130	9
MAY												
07...	.43	1.6	6.9	.18	112	97	288	.13	27	12	128	21
JUNE												
11...	.70	3.2	14	.43	152	151	106	.21	46	18	225	24
JULY												
15...	.75	1.5	6.8	.28	168	63	468	.09	20	6	84	30
AUG.												
19...	1.1	3.6	16	.47	182	180	89.9	.24	63	29	256	10
SEP.												
03...	1.4	4.5	20	.67	192	181	80.1	.25	61	27	240	4

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
23...	6	4.3	390	160	10	10	0	.3	.0	.0	--
NOV.											
13...	10	3.2	14000	--	3200	--	1	.2	--	--	9
DEC.											
05...	6	2.4	13000	150	140	6.7	0	.2	2.0	1.7	--
JAN.											
09...	14	2.3	6600	5200	800	11	2	.2	4.5	2.0	--
FEB.											
11...	6	5.2	690	230	130	7.2	1	.1	--	--	--
MAR.											
17...	4	1.7	1100	750	900	5.2	0	.1	.3	.0	--
APR.											
09...	8	1.0	38	25	6	6.8	0	.1	.0	.0	--
MAY											
07...	10	1.8	920	720	78	6.3	0	.1	3.0	.0	--
JUNE											
11...	7	3.4	1200	500	150	14	0	.2	.0	.0	--
JULY											
15...	20	2.7	60000	16000	8400	13	0	.1	.0	.0	--
AUG.											
19...	5	3.4	260	58	20	8.3	1	.2	.0	.0	--
SEP.											
03...	5	2.1	500	34	25	10	0	.2	.0	.0	--

01208500 NAUGATUCK RIVER AT BEACON FALLS, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 23...	.0	0	.0	.0	.0	.4	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 23...	0	0	.0	.0	.0	.0	.0	.0	.0	12	0	1

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 23...	100	1.1	23000	2	3	170	270	1500	42	17	.2	110

01208736 NAUGATUCK RIVER AT ANSONIA, CONN.

LOCATION.--Lat 41°19'50", long 73°04'47", New Haven County, at bridge on Division Street, at Ansonia-Derby town line.

DRAINAGE AREA.--309 mi^2 (800 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1967, July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.												
23...	1110	7.3	15.5	9.0	10.8	105	8.7	60	250	180	140	16
NOV.												
13...	1000	6.9	7.5	9.5	10.6	94	8.2	60	300	200	120	14
DEC.												
05...	1030	7.2	2.0	1.0	12.8	100	7.1	110	230	870	140	10
JAN.												
09...	1035	7.5	6.0	5.0	13.6	106	7.4	50	140	2400	110	12
FEB.												
11...	1155	6.7	-.5	2.0	14.3	103	8.8	60	210	230	110	13
MAR.												
17...	1250	7.3	10.5	6.5	12.2	100	7.7	50	170	150	80	10
APR.												
09...	1120	7.3	6.0	6.0	12.4	99	7.4	50	180	140	80	10
MAY												
07...	1130	7.2	16.5	13.0	10.8	102	5.9	40	150	110	60	8.7
JUNE												
11...	1145	7.2	24.5	21.0	8.7	78	8.2	60	250	240	100	14
JULY												
15...	1100	6.9	27.5	22.0	8.8	100	5.5	30	190	80	40	6.0
AUG.												
19...	1415	6.9	24.5	25.5	8.5	104	7.6	50	160	170	70	16
SEP.												
03...	1340	7.0	20.0	21.5	9.8	108	7.3	80	140	300	60	18

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.											
23...	3.4	36	0	30	36	34	.05	1.3	2.8	3.6	3.2
NOV.											
13...	3.5	34	0	28	27	26	.05	1.1	2.1	2.7	2.3
DEC.											
05...	2.5	23	0	19	22	19	.08	.86	1.4	1.8	1.8
JAN.											
09...	2.8	31	0	25	23	39	.02	.78	1.8	2.3	2.3
FEB.											
11...	2.9	35	0	29	25	39	.05	1.0	2.9	3.7	2.9
MAR.											
17...	2.7	27	0	22	24	40	.04	.77	1.9	2.4	2.0
APR.											
09...	2.9	21	0	17	22	22	.02	.86	1.2	1.5	1.6
MAY											
07...	1.8	22	0	18	19	15	.02	.72	1.1	1.4	1.5
JUNE											
11...	2.1	27	0	22	29	30	.01	1.4	1.2	1.5	2.0
JULY											
15...	1.4	13	0	11	10	11	.00	.50	.26	.33	.81
AUG.											
19...	3.7	27	0	22	31	36	.00	2.6	.71	.91	1.6
SEP.											
03...	3.4	43	0	35	27	33	.01	2.3	.85	1.1	1.1

01208735 NAUGATUCK RIVER AT ANSONIA, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.											
23...	.40	4.5	20	.61	166	157	.21	54	24	240	20
NOV.											
13...	.20	3.4	15	.62	151	131	.18	49	21	210	20
DEC.											
05...	.40	2.7	12	.34	109	103	.14	35	16	170	20
JAN.											
09...	.50	3.1	14	.74	169	122	.17	42	16	230	10
FEB.											
11...	.00	3.9	17	.65	154	146	.20	44	16	260	20
MAR.											
17...	.10	2.8	12	.45	134	130	.18	36	14	240	10
APR.											
09...	.40	2.5	11	.33	133	126	.17	37	20	168	7
MAY											
07...	.40	2.2	9.8	.32	108	95	.13	29	11	142	18
JUNE											
11...	.80	3.4	15	.53	166	126	.17	44	21	220	19
JULY											
15...	.55	1.3	5.8	.27	137	65	.09	21	10	85	20
AUG.											
19...	.89	4.2	19	.56	171	165	.22	55	33	232	7
SEP.											
03...	.25	3.4	15	.59	183	180	.24	59	24	224	2

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
23...	5	2.9	2200	980	700	10	0	.3	.5	.0	--
NOV.											
13...	5	6.8	8500	2400	620	12	0	.2	6.0	4.5	7
DEC.											
05...	6	2.3	10000	2000	1000	8.6	1	.2	1.5	.0	--
JAN.											
09...	10	1.6	25000	3400	920	9.4	1	.2	2.0	1.5	--
FEB.											
11...	7	11	1400	41	17	6.8	1	.2	--	--	--
MAR.											
17...	5	2.2	1000	300	34	6.7	0	.1	--	--	--
APR.											
09...	5	1.7	120	32	60	5.7	0	.1	.0	.0	--
MAY											
07...	5	2.2	310	120	8	8.3	0	.1	.0	.0	--
JUNE											
11...	6	2.7	16000	2800	330	16	0	.1	.0	.0	--
JULY											
15...	10	2.6	40000	5500	2400	10	0	.0	.0	.0	--
AUG.											
19...	4	5.4	720	100	8	7.9	0	.1	.0	.0	--
SEP.											
03...	4	6.9	130	28	15	7.9	1	.1	.0	.0	--

01208735 NAUGATUCK RIVER AT ANSONIA, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (1G/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)
OCT. 23...	.0	12	.9	.0	.7	.4	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 23...	0	0	.0	.0	.0	.0	.0	.0	.0	90	0	1

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 23...	100	2.6	14400	2	2	55	300	2000	130	34	.1	150

01208828 HOUSATONIC RIVER AT STRATFORD, CONN.

LOCATION.--Lat 41°12'01", long 73°06'39", on Fairfield-New Haven County line, at Washington Bridge on U.S. Highway 1, at Stratford.

DRAINAGE AREA.--1,941 mi^2 (5,027 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH (FT)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.												
16...	1000	3.0	7.7	9.0	14.0	9.1	90	3.0	30	80	70	40
16...	1015	20	7.7	9.0	16.0	7.2	75	2.2	30	70	60	50
NOV.												
04...	1515	3.0	7.8	20.0	14.5	7.6	80	1.8	50	170	60	40
04...	1520	15	7.8	20.0	14.5	8.2	84	1.5	50	220	70	30
DEC.												
09...	1510	3.0	7.7	4.0	3.0	13.0	96	5.5	20	100	40	20
JAN.												
13...	1540	3.0	7.7	3.5	3.5	13.4	100	5.6	10	140	50	20
FEB.												
18...	1420	3.0	7.9	4.5	3.0	8.4	64	5.5	20	50	60	30
18...	1425	13	7.9	4.5	2.0	10.2	86	2.3	40	100	30	30
MAR.												
10...	1410	3.0	7.7	5.0	2.0	13.0	97	4.6	20	40	50	20
10...	1415	10	7.6	5.0	2.0	12.1	92	4.4	20	30	50	30
APR.												
14...	1405	2.0	7.8	13.0	6.0	11.8	96	4.0	10	20	40	20
14...	1415	14	7.9	13.0	4.0	10.0	88	1.3	40	90	40	20
MAY												
12...	1405	3.0	7.8	21.5	14.0	8.3	89	2.0	20	50	40	20
12...	1410	14	7.8	21.5	13.0	8.2	88	1.4	30	70	40	30
JUNE												
16...	1450	3.0	7.3	19.0	19.0	8.0	88	3.8	40	80	20	350
16...	1455	15	7.4	19.0	19.0	8.0	88	2.9	20	70	40	20
JULY												
07...	1420	3.0	7.7	24.5	24.0	6.8	87	1.8	30	40	20	20
07...	1425	15	7.8	24.5	23.0	5.6	71	1.7	30	50	20	20
AUG.												
04...	1600	3.0	7.7	23.0	26.5	7.0	92	4.0	20	20	40	20
SEP.												
15...	1505	3.0	7.8	17.5	20.0	6.8	80	2.4	30	40	40	30

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
16...	80	340	94	0	77	750	5200	.00	.48	.49	.63	.75
16...	160	600	100	0	82	1200	8600	.00	.33	.40	.52	.67
NOV.												
04...	220	750	106	0	87	1600	11000	.00	.50	.28	.36	.42
04...	260	880	109	0	89	1700	13000	.00	.32	.21	.27	.35
DEC.												
09...	19	14	61	0	50	34	20	.02	.42	.26	.33	.51
JAN.												
13...	22	13	75	0	62	20	72	.00	.53	.20	.26	.50
FEB.												
18...	36	74	71	0	58	140	1100	.01	.64	.34	.44	.41
18...	240	800	101	0	83	1700	13000	.00	.37	.22	.28	.29
MAR.												
10...	60	200	64	0	53	430	2600	.01	.59	.32	.41	.54
10...	80	230	68	0	56	520	3200	.01	.58	.31	.40	.52
APR.												
14...	75	170	69	0	57	410	2900	.00	.48	.25	.32	.34
14...	250	810	109	0	89	1700	13000	.00	.23	.09	.12	.45
MAY												
12...	150	480	89	0	73	860	6300	.00	.35	.09	.12	.34
12...	210	720	104	0	85	1400	10000	.00	.32	.10	.13	.39
JUNE												
16...	25	23	89	0	73	61	330	.00	.51	.18	.23	.55
16...	60	12	97	0	80	540	4000	.00	.38	.24	.31	1.1
JULY												
07...	200	480	98	0	80	980	7400	.01	.29	.18	.23	.64
07...	150	410	99	0	81	1100	8200	.01	.30	.19	.24	.75
AUG.												
04...	89	190	91	0	75	380	2700	.00	.32	.07	.09	.62
SEP.												
15...	110	210	115	0	94	570	4200	.01	.53	.17	.22	.84

01208828 HOUSATONIC RIVER AT STRATFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DEPTH (FT)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	SALINITY (PPT)
OCT.												
16...	3.0	.26	1.2	5.4	.15	11600	11200	15.2	1600	1500	13200	5.0
16...	20	.27	1.0	4.4	.72	18300	16900	23.0	2900	2800	21000	7.0
NOV.												
04...	3.0	.14	.92	4.1	.14	21500	20800	28.3	3600	3600	25000	15
04...	15	.14	.67	3.0	.16	25000	24000	32.6	4300	4200	28500	20
DEC.												
09...	3.0	.25	.93	4.1	.12	138	363	.49	110	55	180	.0
JAN.												
13...	3.0	.30	1.0	4.6	.09	136	211	.29	110	47	205	.0
FEB.												
18...	3.0	.07	1.1	4.6	.11	1860	1870	2.54	390	340	3500	3.0
18...	13	.07	.66	2.9	.04	21900	20800	28.3	3900	3800	20000	22
MAR.												
10...	3.0	.22	1.1	5.0	.13	5150	5030	6.84	970	920	10200	6.0
10...	10	.21	1.1	4.9	.14	6330	6290	8.55	1100	1100	17000	10
APR.												
14...	2.0	.09	.82	3.6	.08	5860	5630	7.66	890	830	1400	8.5
14...	14	.36	.68	3.0	.13	26600	24500	33.3	4000	3900	33500	22
MAY												
12...	3.0	.25	.69	3.1	.08	29000	12000	16.3	2400	2300	24200	16
12...	14	.29	.71	3.1	.10	20600	19200	26.1	3500	3400	30200	20
JUNE												
16...	3.0	.37	1.1	4.7	.10	812	748	1.02	160	84	1100	.5
16...	15	.86	1.5	6.6	.30	6280	5160	7.02	200	120	2000	1.0
JULY												
07...	3.0	.46	.93	4.1	.11	14500	14200	19.3	2500	2400	21000	13
07...	15	.56	1.1	4.6	.16	15900	15800	21.5	2100	2000	25400	15
AUG.												
04...	3.0	.55	.94	4.2	.09	5890	5380	7.32	1000	930	11000	8.0
SEP.												
15...	3.0	.67	1.4	6.1	.11	8930	8220	11.2	1100	1000	13000	9.0

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.												
16...	7	3	3.0	B2400	520	20	--	0	.0	6.5	.0	--
16...	3	3	3.2	B2400	B360	8	8.1	0	.1	3.0	.0	--
NOV.												
04...	5	2	2.7	550	120	25	3.3	1	.1	.0	.0	0
04...	6	1	2.8	300	100	22	3.7	1	.0	.3	.0	2
DEC.												
09...	20	6	1.9	2500	500	400	7.1	0	.0	3.0	.0	--
JAN.												
13...	4	4	2.4	3700	1000	180	4.8	3	.0	--	--	--
FEB.												
18...	8	3	1.4	680	110	37	3.8	0	.2	--	--	--
18...	7	10	2.0	190	35	49	4.2	0	.1	--	--	--
MAR.												
10...	9	2	2.0	200	58	42	7.1	0	.0	.0	.0	--
10...	9	2	2.7	340	80	44	8.6	0	.0	--	--	--
APR.												
14...	5	5	1.7	52	22	22	14	0	.3	.0	.0	--
14...	2	7	2.2	250	26	25	9.3	0	.0	--	--	--
MAY												
12...	1	2	2.3	170	23	2	1.7	--	.1	3.3	.0	--
12...	2	3	2.6	260	37	16	1.0	0	.1	4.3	.0	--
JUNE												
16...	18	4	7.1	1000	200	52	6.3	0	.1	4.3	.0	--
16...	8	9	6.2	2100	580	88	9.8	0	.3	22	.0	--
JULY												
07...	7	2	3.1	1800	240	58	5.0	0	.1	4.0	.0	--
07...	5	2	2.5	2100	400	74	8.8	0	.1	14	.0	--
AUG.												
04...	12	2	2.9	2000	130	82	8.3	0	.4	20	.0	--
SEP.												
15...	2	1	2.9	360	35	14	11	0	.1	2.3	.0	--

B. RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

01208828 HOUSATONIC RIVER AT STRATFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (1G/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	2,4-D IN BOTTOM MA-TERIAL (UG/KG)
OCT. 16...	.0	10	.8	.0	.0	.3	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MA-TERIAL (UG/KG)	SILVEX IN BOTTOM MA-TERIAL (UG/KG)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG)	ETHION IN BOTTOM MA-TERIAL (UG/KG)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG)	PCB IN BOTTOM MA-TERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 16...	0	0	.0	.0	.0	.0	.0	.0	.0	29	0	1

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	LOSS ON IGNI-TION IN BOTTOM MA-TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT. 16...	100	4.0	30800	2	0	32	110	1500	11	32	.1	51

RESERVOIRS IN THE HOUSATONIC RIVER BASIN

01201000. LAKE CANDLEWOOD (ROCKY RIVER RESERVOIR).--Lat 41°35'00", long 73°26'00", Litchfield County, Conn., on Rocky River, 2 mi (3 km) west of New Milford. Drainage area, 40.5 mi^2 (104.9 km^2). Usable capacity, 6,210,000,000 ft^3 (176,000,000 m^3). Records available, August 1928 to current year. Completed in 1928 for storage of water for power; impounds water pumped from the Housatonic River during off peak power periods. Records furnished by Connecticut Light and Power Company.

01201999. CAIRNS RESERVOIR .--Lat 41°44'40", long 73°18'05", Litchfield County, Conn., on West Branch Shepaug River, 2.6 mi (4.2 km) north of Woodville. Drainage area, 10.2 mi^2 (26.4 km^2). Usable capacity, 360,000,000 ft^3 (10,000,000 m^3). Records available November 1964 to current year. Completed in 1964 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

01202000. SHEPAUG RESERVOIR.--Lat 41°43'24", long 73°17'37", Litchfield County, Conn., on Shepaug River, 1 mi (2 km) north of Woodville. Drainage area, 38.0 mi^2 (98.4 km^2). Usable capacity, 96,100,000 ft^3 (2,720,000 m^3), of which 76,900,000 ft^3 (2,180,000 m^3) can be diverted for municipal supply. Storage below diversion intake can be released through floodgates or through a fountain at toe of dam. Records available, January 1933 to current year. Completed in September 1933 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

01203500. LAKE LILLINONAH.--Lat 41°26'52", long 73°17'49", New Haven County, Conn., on Housatonic River, and Fairfield County, Conn., 2.3 mi (3.7 km) north of Newtown. Drainage area, 1,392 mi^2 (3,605 km^2). Usable capacity above taintor gate sills, 1,756,000,000 ft^3 (49,730,000 m^3). Normal operating volume, 235,000,000 ft^3 (6,660,000 m^3). Records available, January 1955 to current year. Completed in 1955 for storage of water for power. Records furnished by Connecticut Light and Power Company.

01205000. LAKE ZOAR.--Lat 41°23'00", long 73°10'18", Fairfield County, Conn., on Housatonic River at Stevenson. Drainage area 1,541 mi^2 (3,991 km^2). Usable capacity, 331, 000,000 ft^3 (9,370,000 m^3). Records available, August 1928 to current year. Completed in 1919 for storage of water for power. Records furnished by Connecticut Light and Power Company.

01205560. HALL MEADOW BROOK DETENTION RESERVOIR.--Lat 41°52'10", long 73°10'04", Litchfield County, Conn., on Hall Meadow Brook in West Branch Naugatuck River basin, 5.2 mi (8.4 km) north of Torrington. Drainage area, 12.0 mi^2 (31.1 km^2). Usable capacity, 375,000,000 ft^3 (10,600,000 m^3). Records available, October 1964 to current year. Completed in 1962 by Corps of Engineers for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.

01205610. LAKE WINCHESTER.--Lat 41°54'27", long 73°09'08", Litchfield County, Conn., 1 mi (2 km) northwest of Winchester on East Branch Naugatuck River. Drainage area, 2.18 mi^2 (5.65 m^2). Usable capacity, 116,200,000 ft^3 (3,290,000 m^3) based on lake survey by the Connecticut Board of Fisheries and Game. Records available, September 1965 to current year. Completed in 1926 for storage of water for power. Lake is presently used for conservation and recreation.

01205650. EAST BRANCH DETENTION RESERVOIR.--Lat 41°50'13", long 73°07'15", Litchfield County, Conn., on East Branch Naugatuck River, 2.3 mi (3.7 km) north of Torrington. Drainage area, 9.30 mi^2 (24.09 km^2). Usable capacity, 189,500,000 ft^3 (5,367,000 m^3). Records available, March 1965 to current year. Completed in 1964 by Corps of Engineers for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.

01206600. THOMASTON RESERVOIR.--Lat 41°41'41", long 73°03'44", Litchfield County, Conn., on Naugatuck River, 0.2 mi (0.3 km) downstream from Leadmine Brook, 1.5 mi (2.4 km) north of Thomaston, and at mile 31.0 (49.9 km). Drainage area, 96.1 mi^2 (248.9 km^2). Usable capacity, 1,830,000,000 ft^3 (51,800,000 m^3). Records available, January 1961 to current year. Completed in December 1960 by Corps of Engineers for flood control. Records furnished by Corps of Engineers.

01206940. NORTHFIELD BROOK LAKE.--Lat 41°40'48", long 73°05'27", Litchfield County, Conn., on Northfield Brook in Naugatuck River basin, 1 mi (2 km) northwest of Thomaston. Drainage area, 5.52 mi^2 (14.30 km^2). Usable capacity, 104,000,000 ft^3 (2,950,000 m^3). Permanent pool capacity, 3,600,000 ft^3 (100,000 m^3). Records available, September 1965 to current year. Completed in 1965 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

01207000. PITCH RESERVOIR.--Lat 41°41'34", long 73°09'04", Litchfield County, Conn., on Branch Brook in Naugatuck River basin, 4 mi (6.4 km) northwest of Thomaston. Drainage area, 5.93 mi^2 (15.36 km^2). Usable capacity, 189,000,000 ft^3 (5,350,000 m^3). Records available, October 1943 to current year. Completed in 1943 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

01207500. MORRIS RESERVOIR.--Lat 41°40'29", long 73"08'39", Litchfield County, Conn., on Branch Brook in Naugatuck River basin, 3.5 mi (5.6 km) west of Thomaston. Drainage area, including Pitch Reservoir, 13.0 mi^2 (33.7 km^2). Usable capacity, 265,600,000 ft^3 (7,522,000 m^3). Records available, May 1918 to September 1924, September 1928 to current year. Completed in 1913 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

01208000. WIGWAM RESERVOIR.--Lat 41°39'50", long 73°07'41", Litchfield County, Conn., on Branch Brook in Naugatuck River basin, 3 mi (5 km) west of Thomaston. Drainage area, including Pitch and Morris Reservoirs, 17.5 mi^2 (45.3 km^2). Usable capacity, 98,500,000 ft^3 (2,790,000 m^3). Records available, May 1918 to September 1924, September 1928 to current year. Completed in 1902 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

RESERVOIRS IN THE HOUSATONIC RIVER BASIN--continued

012080011. BLACK ROCK LAKE.--Lat 41°39'26", long 73°06'13", Litchfield County, Conn., on Branch Brook in Naugatuck River basin, 1.8 mi (2.9 km) southwest of Thomaston. Drainage area, 20.5 mi^2 (53.1 km^2). Usable capacity, 373,000,000 ft^3 (10,600,000 m^3). Permanent pool capacity, 11,543,000 ft^3 (326,900 m^3). Records available, October 1970 to current year. Completed in 1970 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

01208130. HANCOCK BROOK LAKE.--Lat 41°37'23", long 73°02'12", Litchfield County, Conn., on Hancock Brook in Naugatuck River basin, 1.1 mi (1.8 km) southwest of Hancock. Drainage area, 11.9 mi^2 (30.8 km^2). Usable capacity 170,000,000 ft^3 (4,800,000 m^3). Permanent pool capacity, 5,700,000 ft^3 (160,000 m^3). Records available, September 1965 to current year. Completed in 1965 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

01208410. HOP BROOK LAKE.--Lat 41°30'50", long 73°04'03", New Haven County, Conn., on Hop Brook in Naugatuck River basin, 1.2 mi (1.9 km) northwest of Union City. Drainage area, 16.0 mi^2 (41.4 km^2). Usable capacity, 304,000,000 ft^3 (8,610,000 m^3). Records available, February 1969 to current year. Completed in 1969 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

Month-end usable contents in millions of cubic feet, water year October 1974 to September 1975

Date	Lake Candlewood	Cairns Reservoir	Shepaug Reservoir	Lake Lillinonah	Lake Zoar	Hall Meadow Brook Detention Reservoir	Lake Winchester
Sept. 30, 1974....	6,088	260	98.6	1,383	312.5	1.2	116.2
Oct. 31.....	5,215	294	97.3	1,552	317.0	1.1	116.2
Nov. 30.....	5,594	349	97.3	1,484	303.3	.8	116.2
Dec. 31.....	5,979	361	97.0	1,195	312.5	.9	116.2
Jan. 31, 1975....	5,931	363	98.6	1,327	312.5	1.2	116.2
Feb. 28.....	5,690	364	98.6	1,397	358.6	1.5	116.2
Mar. 31.....	5,907	363	98.8	1,376	303.3	1.5	116.2
Apr. 30.....	5,967	362	96.6	1,397	294.1	.9	116.2
May 31.....	6,088	360	96.3	1,462	258.0	.8	116.2
June 30.....	5,967	358	84.0	1,629	312.5	.6	116.2
July 31.....	5,967	360	95.7	1,426	289.6	.6	116.2
Aug. 31.....	5,967	357	71.6	1,362	303.3	.8	116.2
Sept. 30.....	6,088	364	99.9	1,433	377.3	6.6	116.2

Date	East Branch Detention Reservoir	Thomaston Reservoir	Northfield Brook Lake	Pitch Reservoir	Morris Reservoir
Sept. 30, 1974....	0.2	51.0	0.6	189.8	264.6
Oct. 31.....	.2	20.6	.6	189.7	264.5
Nov. 30.....	.2	11.4	.6	189.7	260.0
Dec. 31.....	.1	12.1	.6	189.7	265.6
Jan. 31, 1975 ...	.2	16.0	.6	189.5	267.6
Feb. 28.....	.3	19.2	.6	189.8	267.6
Mar. 31.....	.1	14.0	5.0	189.5	268.2
Apr. 30.....	.1	11.4	4.9	189.6	266.9
May 31.....	.2	10.5	4.8	189.5	263.7
June 30.....	.1	7.6	4.7	189.6	266.4
July 31.....	.1	8.3	4.8	189.4	266.2
Aug. 31.....	.1	12.1	4.9	189.8	265.3
Sept. 30.....	19.5	246.0	5.1	188.6	267.7

Date	Wigwam Reservoir	Black Rock Lake	Hancock Brook Lake	Hop Brook Lake
Sept. 30, 1974...	100.7	13.7	8.9	5.9
Oct. 31.....	99.2	13.7	8.7	5.8
Nov. 30.....	99.0	13.6	7.8	5.6
Dec. 31.....	99.0	13.7	8.4	5.8
Jan. 31, 1975	99.3	13.9	9.0	5.8
Feb. 28.....	99.3	13.9	8.9	5.9
Mar. 31.....	99.4	13.9	8.8	5.9
Apr. 30.....	98.8	13.6	8.4	5.7
May 31.....	98.9	13.5	7.8	5.6
June 30.....	98.8	13.4	5.6	5.5
July 31.....	98.6	13.3	7.2	5.5
Aug. 31.....	98.5	13.4	8.4	5.6
Sept. 30.....	99.2	33.2	5.3	10.4

01208925 MILL RIVER NEAR FAIRFIELD, CONN.

LOCATION.--Lat 41°09'55", long 73°16'14", Fairfield County, on right bank just downstream from bridge on Duck Farm Road, 1.5 mi (2.4 km) north of Fairfield, 18.3 mi (29.4 km) downstream from headwater of Aspetuck River, 14.0 mi (22.5 km) downstream from headwater of Mill River, and 2.3 mi (3.7 km) upstream from mouth at Southport Harbor.

DRAINAGE AREA.--28.5 mi^2 (73.8 km^2), revised.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 15.89 ft (4.843 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 503 ft^3/s (14.2 m^3/s) Dec. 2, gage height, 4.38 ft (1.335 m); minimum, 3.9 ft^3/s (0.11 m^3/s) Sept. 11, gage height, 0.94 ft (0.287 m).

Period of record: Maximum discharge, 850 ft^3/s (24.1 m^3/s) Sept. 3, 1974, gage height, 5.68 ft (1.731 m); minimum, 1.3 ft^3/s (0.037 m^3/s) Aug. 16, 1974.

REMARKS.--Records good except those for period of no gage height record, which are fair. Flow completely regulated by Easton, Hemlock, and Samp Mortar Reservoirs, usable capacity 609,900,000 ft^3 (17.3 hm^3), and diversions into Hemlock Reservoir from Aspetuck Reservoir in the Aspetuck River basin and by diversions from Hemlock and Easton Reservoirs by the Bridgeport Hydraulic Company for water supply of the cities of Bridgeport and Fairfield.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	14	14	39	52	49	39	22	21	7.7	6.9	17
2	16	13	190	45	45	44	35	25	14	6.9	6.9	17
3	14	13	83	33	40	40	181	26	13	6.5	6.9	16
4	13	14	48	31	39	37	289	38	14	5.2	6.5	14
5	12	16	35	30	37	30	166	152	11	4.5	6.9	6.2
6	11	18	31	27	40	27	112	96	50	5.2	7.3	4.8
7	10	16	28	40	42	29	87	108	21	5.5	17	4.8
8	9.2	16	49	31	32	40	61	73	14	5.8	10	4.5
9	9.2	13	58	170	31	40	48	56	13	6.5	8.6	5.2
10	8.7	13	58	148	30	24	40	44	11	6.2	7.3	4.2
11	8.2	13	48	110	30	22	38	38	10	5.2	6.9	3.7
12	8.7	16	43	68	29	25	35	33	58	18	6.5	8.1
13	8.2	33	39	55	29	33	35	50	73	59	6.2	8.1
14	7.7	17	37	51	28	32	31	52	43	98	6.2	6.2
15	7.7	14	34	128	28	40	29	38	33	89	5.8	4.8
16	54	13	87	122	28	32	32	48	26	33	8.6	4.8
17	30	13	189	86	30	30	29	39	22	22	8.6	4.5
18	20	13	138	70	35	28	24	31	19	17	7.3	4.8
19	16	13	90	109	56	38	23	26	16	14	6.2	13
20	16	19	63	71	58	219	25	22	15	13	5.8	10
21	15	32	51	52	50	188	26	20	13	33	5.5	18
22	14	21	51	45	48	108	21	17	10	15	5.2	13
23	14	17	49	39	60	91	17	15	10	12	4.5	66
24	13	16	46	41	130	68	28	14	9.5	10	7.3	93
25	14	16	86	70	170	70	40	13	8.6	25	7.3	107
26	15	16	88	120	100	71	63	13	8.1	14	8.6	112
27	13	15	58	80	80	58	41	13	8.1	12	16	122
28	13	15	49	60	65	43	31	13	8.1	10	16	50
29	12	14	39	80	---	32	25	11	10	9.0	15	28
30	12	13	37	70	---	52	23	11	12	8.6	27	22
31	20	---	34	60	---	66	---	11	---	8.1	19	---
TOTAL	454.6	485	1950	2181	1442	1706	1674	1168	594.4	584.9	283.8	792.7
MEAN	14.7	16.2	62.9	70.4	51.5	55.0	55.8	37.7	19.8	18.9	9.15	26.4
MAX	54	33	190	170	170	219	289	152	73	98	27	122
MIN	7.7	13	14	27	28	22	17	11	8.1	4.5	4.5	3.7

CAL YR 1974 TOTAL 13760.9 MEAN 37.7 MAX 309 MIN 1.3
WTR YR 1975 TOTAL 13316.4 MEAN 36.5 MAX 289 MIN 3.7

NOTE.--No gage height record Jan. 25 to Feb. 26.

01208950 SASCO BROOK NEAR SOUTHPORT, CONN.

LOCATION.--Lat 41°09'10", long 73°18'23", Fairfield County, on left downstream abutment of bridge on Hulls Farm Road, 1.5 mi (2.4 km) northwest of Southport.

DRAINAGE AREA.--7.27 mi^2 (18.83 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximum, water years 1961-64. October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 52.01 ft (15.853 m) above mean sea level. Sept. 6, 1960, to Oct. 6, 1964, crest-stage gage, Oct. 7, 1964 to June 16, 1966, water-stage recorder, and June 17, 1966, to Apr. 27, 1969, nonrecording gage and crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--11 years, 12.5 ft^3/s (0.354 m^3/s), 23.35 in/yr (593 mm/yr).

EXTREMES.--Current year: Maximum discharge, 136 ft^3/s (3.85 m^3/s) Dec. 2, gage height, 2.81 ft (0.856 m); minimum, 0.95 ft^3/s (0.027 m^3/s) Sept. 7-12, gage height, 0.97 ft (0.296 m).

Period of record: Maximum discharge, 1,640 ft^3/s (46.4 m^3/s) June 19, 1972, gage height, 7.00 ft (2.134 m); minimum, 0.01 ft^3/s (<0.001 m^3/s) Aug. 28, Oct. 1, 2, 6-12, 1964, Aug. 13, 14, Aug. 29 to Sept. 3, 1966.

PEAK DISCHARGE.--(BASE, 100 ft^3/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-02	1230	2.81	136	05-05	0630	2.58	103
12-17	0030	2.58	103	07-14	0930	2.60	106
01-09	1300	2.71	122	09-24	2230	2.62	120
04-03	0530	2.73	124	09-26	1830	2.71	132

REMARKS.--Records good except those for period of no gage-height record Jan. 14 to Feb. 26, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	8.5	6.2	17	20	18	15	8.5	9.1	3.2	1.8	2.7
2	9.5	7.1	82	16	17	17	16	12	7.1	2.5	1.6	2.2
3	7.8	6.8	42	12	15	15	88	11	5.9	2.2	1.5	1.8
4	7.1	6.2	20	12	14	13	35	14	6.5	1.8	1.5	1.5
5	6.5	6.8	14	11	14	13	23	72	5.1	1.6	1.5	1.2
6	5.9	8.5	13	10	15	13	19	28	27	1.5	2.0	1.2
7	5.4	7.1	13	20	15	13	17	34	13	1.5	12	1.1
8	5.1	5.9	28	16	13	16	15	21	6.8	1.5	7.0	1.1
9	4.6	5.7	35	75	11	12	14	16	5.4	1.3	5.0	1.1
10	4.4	6.2	20	46	10	10	13	14	4.6	1.5	4.0	1.1
11	4.4	5.1	15	28	9.5	12	11	13	4.0	1.3	3.0	.95
12	4.2	5.1	14	25	9.0	15	10	11	30	5.1	2.2	1.3
13	4.4	20	13	36	10	20	7.8	20	54	30	1.8	2.7
14	4.4	13	12	36	9.0	15	12	16	19	81	2.0	2.2
15	4.2	8.8	11	30	9.0	17	11	11	12	90	1.6	1.8
16	31	7.1	34	25	9.5	18	11	17	9.5	20	2.0	1.5
17	29	6.5	68	22	10	16	10	13	8.8	12	3.2	1.3
18	14	6.2	28	22	15	14	9.5	10	7.8	7.5	2.9	1.2
19	9.1	6.2	20	40	18	23	9.0	9.1	6.2	6.8	2.3	4.0
20	7.8	12	17	35	20	67	9.0	8.1	5.1	5.7	1.8	4.2
21	7.1	21	16	30	17	32	8.5	7.8	4.4	25	1.5	9.8
22	6.5	14	15	25	15	22	8.0	8.1	3.8	11	1.3	7.1
23	6.5	9.5	14	22	20	20	8.0	6.8	3.4	6.2	1.2	38
24	6.2	8.5	13	20	35	25	19	5.9	3.2	4.9	1.5	63
25	6.5	8.1	27	22	50	22	21	5.1	2.7	16	2.2	91
26	7.5	7.8	25	35	30	19	23	4.9	2.5	12	2.3	80
27	6.5	6.8	16	30	22	16	14	4.9	2.5	6.5	2.2	76
28	5.9	6.8	15	22	19	15	11	4.4	2.5	4.9	1.8	28
29	5.7	6.8	13	25	---	16	9.8	3.6	2.7	4.2	1.5	17
30	5.7	6.2	13	27	---	29	8.8	3.2	4.0	2.3	3.2	12
31	10	---	12	23	---	18	---	3.6	---	2.0	4.0	---
TOTAL	255.9	254.3	684.2	815	471.0	591	486.4	417.0	278.6	373.0	83.4	458.05
MEAN	8.25	8.48	22.1	26.3	16.8	19.1	16.2	13.5	9.29	12.0	2.69	15.3
MAX	31	21	82	75	50	67	88	72	54	90	12	91
MIN	4.2	5.1	6.2	10	9.0	10	7.8	3.2	2.5	1.3	1.2	.95
CFSM	1.13	1.17	3.04	3.62	2.31	2.63	2.23	1.86	1.28	1.65	.37	2.10
IN.	1.31	1.30	3.50	4.17	2.41	3.02	2.49	2.13	1.43	1.91	.43	2.34

CAL YR 1974 TOTAL 5115.70 MEAN 14.0 MAX 118 MIN .30 CFSM 1.93 IN 26.18
WTR YR 1975 TOTAL 5167.85 MEAN 14.2 MAX 91 MIN .95 CFSM 1.95 IN 26.44

01208990 SAUGATUCK RIVER NEAR REDDING, CONN.

LOCATION.--Lat 41°17'40", long 73°23'44", Fairfield County, on left downstream side of bridge on State Highway 53, 100 ft (30 m) south of intersection of State Highways 53 and 107, 0.8 mi (1.3 km) upstream from Saugatuck Reservoir, and 1.0 mi (1.6 km) southwest of Redding.

DRAINAGE AREA.--20.8 mi^2 (53.9 km^2).

PERIOD OF RECORD.--Discharge: Occasional low-flow measurements, water years 1961-64, and annual maximum, water years 1962-64. October 1964 to current year.
Chemical analyses: September 1964, March 1966, June 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 285.42 ft (86.996 m) above mean sea level. Nov. 7, 1961, to Oct. 4, 1964, crest-stage gage, Oct. 1, 1964 to Apr. 25, 1966, water-stage recorder, and Apr. 26, 1966 to Sept. 30, 1969, nonrecording gage and crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--11 years, 39.2 ft^3/s (1.110 m^3/s), 25.59 in/yr (650 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,220 ft^3/s (34.6 m^3/s) Sept. 27, gage height, 4.84 ft (1.475 m); minimum, 1.7 ft^3/s (0.048 m^3/s) Sept. 8, gage height, 1.09 ft (0.332 m).

Period of record: Maximum discharge, 2,160 ft^3/s (61.2 m^3/s) Mar. 25, 1969, gage height, 5.88 ft (1.792 m); minimum observed, 0.05 ft^3/s (0.001 m^3/s) Sept. 2, 1966, gage height, 0.66 ft (0.201 m).

PEAK DISCHARGE.--(BASE, 180 ft^3/s):

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-02	1800	3.04	227	03-20	0430	3.29	316
12-08	1530	2.99	212	04-03	1200	3.41	364
12-16	2330	2.88	185	07-15	0630	2.93	198
01-18	1830	2.93	198	09-27	0730	4.84	1,220

REMARKS.--Records good except those for period no gage-height record Apr. 18 to May 11, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	23	21	45	68	76	65	27	22	6.6	7.2	3.3
2	58	21	92	44	61	69	57	32	22	6.3	6.4	3.0
3	43	20	140	37	53	61	195	32	16	4.8	5.3	2.7
4	35	19	103	36	46	52	160	40	18	4.0	4.8	2.3
5	29	19	79	33	46	48	122	90	14	3.5	4.2	2.2
6	26	27	63	30	49	47	101	60	60	3.2	8.2	2.2
7	23	23	52	46	50	47	89	80	30	4.6	50	2.1
8	20	21	118	41	46	51	79	60	20	4.0	26	2.3
9	19	19	138	118	41	41	70	45	15	3.5	18	4.4
10	18	19	106	100	44	37	63	40	12	3.5	13	2.9
11	16	19	89	95	38	38	56	35	10	3.3	10	2.5
12	15	19	79	91	32	42	46	33	20	6.9	7.5	12
13	15	41	70	124	31	50	40	55	80	30	6.0	11
14	14	40	64	126	31	42	36	70	50	126	5.3	7.2
15	15	33	57	101	33	43	30	49	30	120	4.8	5.5
16	57	29	91	88	34	46	26	58	24	65	5.5	4.8
17	85	26	146	76	36	46	33	49	22	42	6.0	3.8
18	54	24	105	116	38	40	30	42	18	28	5.0	3.3
19	43	23	89	153	55	68	30	38	15	21	4.0	5.0
20	36	22	77	130	62	248	30	33	13	21	3.3	5.8
21	30	45	70	111	54	182	27	30	11	53	3.0	6.5
22	26	44	64	92	52	144	25	28	8.9	32	3.0	7.0
23	25	33	57	85	72	120	23	25	7.8	24	2.7	50
24	24	29	54	79	118	105	40	23	7.2	18	4.0	120
25	23	28	75	103	149	106	50	23	6.6	42	4.4	193
26	25	26	71	124	116	92	55	20	6.0	28	5.0	566
27	23	24	55	97	97	79	40	19	5.5	21	4.2	988
28	22	23	51	84	84	70	35	16	5.0	16	3.3	387
29	20	23	46	97	---	64	30	14	6.9	13	2.9	212
30	19	22	45	92	---	87	25	13	8.2	10	6.3	146
31	22	---	44	77	---	76	---	13	---	8.7	4.4	---
TOTAL	968	784	2411	2671	1636	2317	1708	1192	584.1	772.9	243.7	2763.8
MEAN	31.2	26.1	77.8	86.2	58.4	74.7	56.9	38.5	19.5	24.9	7.86	92.1
MAX	88	45	146	153	149	248	195	90	80	126	50	988
MIN	14	19	21	30	31	37	23	13	5.0	3.2	2.7	2.1
CFSM	1.50	1.25	3.74	4.14	2.81	3.59	2.74	1.85	.94	1.20	.38	4.43
IN.	1.73	1.40	4.31	4.78	2.93	4.14	3.05	2.13	1.04	1.38	.44	4.94

CAL YR 1974 TOTAL 15799.6 MEAN 43.3 MAX 203 MIN 1.4 CFSM 2.08 IN 28.26
WTR YR 1975 TOTAL 18051.5 MEAN 49.5 MAX 988 MIN 2.1 CFSM 2.38 IN 32.28

01208990 SAUGATUCK RIVER NEAR REDDING, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.												
15...	1030	16	7.6	17.0	11.0	9.8	89	10	0	120	10	0
NOV.												
04...	1040	18	7.7	16.0	11.0	10.8	100	9.4	10	150	2900	10
DEC.												
09...	1030	135	7.4	5.0	4.0	10.4	79	7.8	10	140	10	20
JAN.												
13...	1115	124	7.3	3.5	5.0	12.4	97	7.9	30	180	20	20
FEB.												
18...	1030	40	7.3	4.5	2.0	14.3	103	8.9	0	110	30	20
MAR.												
10...	1030	31	7.3	2.0	1.5	13.6	97	6.9	30	80	10	40
APR.												
14...	1030	46	7.6	10.0	6.0	12.2	98	5.5	0	60	10	0
MAY												
12...	1025	35	7.5	22.5	17.0	9.9	102	4.8	0	150	10	0
JUNE												
16...	1100	24	7.4	19.5	18.0	9.2	97	8.7	10	280	20	10
JULY												
07...	1030	2.8	7.7	28.0	21.5	9.3	104	7.1	10	90	10	10
AUG.												
04...	1100	4.6	7.4	24.5	23.0	8.4	97	9.2	0	90	10	10
SEP.												
15...	1100	7.5	7.5	15.5	12.5	11.4	106	9.2	0	110	0	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
15...	16	5.3	66	0	54	12	11	.00	.05	.16	.21	.27
NOV.												
04...	17	4.9	68	0	56	13	11	.01	.06	.12	.15	.23
DEC.												
09...	12	3.6	39	0	32	19	13	.02	.10	.18	.23	.23
JAN.												
13...	14	4.1	45	0	37	11	9.6	.00	.14	.06	.08	.29
FEB.												
18...	16	5.0	56	0	46	22	37	.01	.22	.07	.09	.10
MAR.												
10...	14	5.5	52	0	43	16	12	.02	.16	.04	.05	.11
APR.												
14...	15	3.0	46	0	38	12	9.8	.01	.11	.03	.04	.08
MAY												
12...	18	4.7	58	0	48	12	13	.01	.05	.00	.00	.24
JUNE												
16...	16	4.6	59	0	48	10	10	.01	.14	.01	.01	.42
JULY												
07...	19	6.0	83	0	68	11	9.0	.00	.11	.01	.01	.38
AUG.												
04...	23	6.2	76	0	62	8.0	14	.02	.13	.00	.00	.24
SEP.												
15...	23	5.6	75	0	62	12	5.5	.01	.08	.00	.00	.30

01208990 SAUGATUCK RIVER NEAR REDDING, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
15...	.11	.32	1.4	.01	112	109	4.71	.15	62	8	145	30
NOV.												
04...	.11	.29	1.3	.01	116	108	5.25	.15	63	7	146	30
DEC.												
09...	.05	.33	1.5	.02	77	79	28.8	.11	45	13	106	50
JAN.												
13...	.23	.43	1.9	.02	94	102	34.2	.14	52	15	126	20
FEB.												
18...	.03	.32	1.4	.01	103	93	10.0	.13	61	15	173	10
MAR.												
10...	.07	.27	1.2	.05	118	101	8.45	.14	58	15	142	7
APR.												
14...	.05	.19	.84	.01	95	86	10.7	.12	50	12	136	7
MAY												
12...	.24	.29	1.3	.02	119	98	9.26	.13	64	17	134	8
JUNE												
16...	.41	.56	2.5	.03	96	91	5.90	.12	59	11	138	38
JULY												
07...	.37	.49	2.2	.03	129	101	.76	.14	72	4	160	15
AUG.												
04...	.24	.37	1.6	.03	129	99	1.23	.13	83	21	168	16
SEP.												
15...	.30	.38	1.7	.03	131	104	2.11	.14	81	19	158	7

DATE	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.											
15...	1	2.7	440	12	32	5.0	0	.0	1.0	.0	--
NOV.											
04...	1	2.2	28	16	13	7.8	2	.0	.0	.0	0
DEC.											
09...	2	2.5	320	230	1700	5.5	0	.0	2.3	.0	--
JAN.											
13...	1	3.6	56	50	130	4.8	0	.0	3.0	1.0	--
FEB.											
18...	1	4.5	21	14	10	6.6	1	.0	--	--	--
MAR.											
10...	1	4.2	34	6	8	5.7	0	.0	--	--	--
APR.											
14...	1	1.8	15	6	3	4.5	0	.0	.0	.0	--
MAY											
12...	1	2.9	100	29	6	5.1	0	.0	.0	.0	--
JUNE											
16...	1	3.8	1400	96	160	6.4	0	.0	.0	.0	--
JULY											
07...	1	2.6	400	68	250	4.6	0	.0	.0	.0	--
AUG.											
04...	1	4.8	620	80	500	13	0	.0	.0	.0	--
SEP.											
15...	1	3.8	600	41	180	9.6	0	.0	.0	.0	--

01208990 SAUGATUCK RIVER NEAR REDDING, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 15...	.0	0	1.9	3.5	10	.5	.0	.0	.0	.0	0	0

DATE	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 15...	0	0	.0	.0	.0	.0	.0	.0	.0	0	0	1

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 15...	100	3.4	118000	2	0	4	1	1200	48	60	.0	11

01209700 NORWALK RIVER AT SOUTH WILTON, CONN.

LOCATION.--Lat 41°09'49", long 73°25'11", Fairfield County, on right bank at upstream side of bridge on Kent Road at South Wilton, 2.5 mi (4.0 km) north of Norwalk.

DRAINAGE AREA.--30.0 mi^2 (77.7 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-62. September 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 115.69 ft (35.262 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 51.6 ft^3/s (1.461 m^3/s) 23.36 in/yr (593 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,560 ft^3/s (44.2 m^3/s) Sept 27, gage height, 4.16 ft (1.268 m); minimum, 4.7 ft^3/s (0.13 m^3/s) Sept. 9, 10, gage height, 1.23 ft (0.375 m).

Period of record: Maximum discharge, 2,220 ft^3/s (62.9 m^3/s) June 19, 1972, gage height, 4.79 ft (1.460 m); minimum, 0.3 ft^3/s (0.008 m^3/s) Sept. 24, 1964, gage height, 0.82 ft (0.250 m).

Flood of October 1955 reached a stage of 13.5 ft (4.12 m), from floodmarks.

PEAK DISCHARGE.--(BASE, 300 ft^3/s):

DATE	TIME	G.H.	DISCHARGE
12-02	1200	2.59	305
3-20	0500	2.78	408
4-03	1900	3.06	576
7-14	0400	2.79	390
9-27	unknown	4.16	1,560

REMARKS.--Records excellent. Occasional regulation at low flow by mill upstream. City of Norwalk diverts an indeterminable amount of water from Streets (Popes) Pond, drainage area 2.36 mi^2 (6.11 km^2).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	34	30	62	82	95	78	37	32	9.7	16	9.3
2	80	31	209	58	73	84	69	47	30	8.5	15	8.1
3	57	29	149	54	64	71	269	45	26	7.5	13	6.8
4	43	27	113	47	55	62	239	58	32	7.5	12	5.9
5	38	30	80	43	58	57	167	136	27	6.5	12	5.4
6	35	38	64	40	64	55	123	80	102	7.0	14	5.3
7	32	33	57	73	68	55	106	118	50	6.0	78	5.3
8	29	30	138	64	57	66	95	80	36	7.5	47	5.1
9	27	27	173	195	50	52	84	68	27	8.0	37	5.1
10	25	26	125	158	42	43	76	57	20	5.6	27	5.7
11	24	24	102	138	40	43	71	52	16	5.2	20	6.3
12	23	25	86	120	36	50	66	47	60	12	17	8.9
13	23	86	78	164	41	68	60	71	138	46	12	16
14	22	60	69	161	38	57	55	69	76	239	12	14
15	22	52	60	123	36	58	52	54	55	209	10	12
16	123	42	125	104	38	55	54	68	40	123	14	8.3
17	118	36	209	88	46	60	47	57	34	82	13	7.4
18	88	33	141	118	58	50	42	46	29	55	13	7.0
19	71	31	111	182	84	76	43	41	24	38	11	12
20	62	37	92	158	90	327	43	36	20	35	9.7	11
21	52	80	82	116	80	228	40	33	16	109	8.5	22
22	45	69	73	106	71	158	36	30	13	54	8.0	17
23	43	46	66	95	97	133	34	28	12	37	7.6	36
24	37	42	64	88	161	116	60	26	10	28	8.4	200
25	32	41	102	125	216	123	90	24	9.7	86	9.2	400
26	33	41	92	155	158	106	92	23	8.5	52	10	700
27	30	32	71	118	123	90	62	22	8.0	35	11	883
28	28	31	66	97	104	82	49	20	8.0	28	8.5	468
29	28	31	57	125	---	71	42	18	8.0	27	7.0	287
30	27	30	54	111	---	111	38	17	14	21	17	184
31	37	---	49	92	---	97	---	17	---	18	11	---
TOTAL	1457	1174	2987	3378	2130	2799	2382	1525	981.2	1413.0	508.9	3361.9
MEAN	47.0	39.1	96.4	109	76.1	90.3	79.4	49.2	32.7	45.6	16.4	112
MAX	123	86	209	195	216	327	269	136	138	239	78	883
MIN	22	24	30	40	36	43	34	17	8.0	5.2	7.0	5.1
CFSM	1.57	1.30	3.21	3.63	2.54	3.01	2.65	1.64	1.09	1.52	.55	3.73
IN.	1.81	1.46	3.70	4.19	2.64	3.47	2.95	1.89	1.22	1.75	.63	4.17

CAL YR 1974 TOTAL 23052.7 MEAN 63.2 MAX 461 MIN 2.8 CFSM 2.11 IN 28.59
WTR YR 1975 TOTAL 24097.0 MEAN 66.0 MAX 883 MIN 5.1 CFSM 2.20 IN 29.88

01209788 STAMFORD HURRICANE BARRIER AT STAMFORD, CONN.

LOCATION.--Lat 41°02'13", long 73°32'06", Fairfield County, at control tower of U.S. Army Corps of Engineers hurricane barrier, near Woodland Cemetery, at South end of Stamford, in Long Island Sound.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Stage data in feet at 15-minute intervals available upon request.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	6.25	6.09	7.60	6.24	5.86	6.62	6.17	6.35	5.67	5.73	6.15	5.87
high tide	Date	16	12	2	9	25	14	25	24	8	11	6	6
	Time	1115	0915	1130	0900	0945	2400	2245	2215	2200	0015	2215	1115
Minimum	Elevation	-4.61	-4.84	-5.09	-6.00	-5.89	-5.74	-4.93	-4.29	-4.35	-3.91	-4.48	-4.47
low tide	Date	15	15	30	30	26	27	27	24	11	14	9	7
	Time	1715	1845	1845	0715	1745	0500	0645	0430	0630	0915	0630	1830

NOTE.--Time shown is eastern standard. No gage-height record June 17 to July 6. The high tide of June 8 is the highest recorded and the low tide of June 11 is the lowest recorded during June; tide may have been higher or lower during period of no record June 17-30.

01209910 STAMFORD HARBOR AT STAMFORD, CONN.

LOCATION.--Lat 41°01'47", long 73°32'17", Fairfield County, off Cemetery Point, at Stamford.

DRAINAGE AREA.--40.3 mi^2 (104.4 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH (FT)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.												
15...	1325	3.0	7.6	19.0	16.0	6.5	69	1.4	50	130	70	40
NOV.												
04...	1315	3.0	7.7	19.0	14.0	7.6	79	1.3	60	370	80	40
DEC.												
09...	1310	3.0	7.6	6.5	7.0	9.8	95	2.3	40	220	2600	60
JAN.												
13...	1315	3.0	7.7	3.5	5.0	9.2	86	2.3	50	550	110	40
FEB.												
18...	1230	3.0	7.6	7.0	3.0	9.8	86	2.3	50	100	50	40
MAR.												
10...	1230	3.0	7.2	5.0	3.0	11.2	99	2.9	40	120	70	60
APR.												
14...	1200	3.0	7.9	8.5	6.0	11.2	100	.9	40	100	40	20
MAY												
12...	1215	3.0	7.7	26.5	12.0	10.0	109	1.0	40	100	60	50
JUNE												
16...	1300	3.0	7.6	20.5	17.0	6.8	82	.7	50	140	60	40
JULY												
07...	1215	3.0	8.0	26.5	21.0	8.3	108	.5	60	120	50	60
AUG.												
04...	1400	3.0	7.7	23.5	22.0	3.3	44	1.2	50	110	70	50
SEP.												
15...	1330	3.0	7.3	20.0	19.5	4.4	56	1.5	50	140	100	50

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
15...	240	910	112	0	92	2300	14000	.00	.09	.57	.73	.78
NOV.												
04...	300	1000	113	0	93	2100	16000	.00	.17	.25	.32	.36
DEC.												
09...	290	1200	114	0	94	1900	14000	.00	.25	.67	.86	1.1
JAN.												
13...	290	960	110	0	90	1800	13000	.00	.28	.70	.90	1.2
FEB.												
18...	270	850	110	0	90	1940	14000	.01	.35	.31	.40	.57
MAR.												
10...	280	400	116	0	95	1700	12000	.00	.36	1.6	2.1	2.4
APR.												
14...	270	900	112	0	92	1900	15000	.00	.20	.07	.09	.24
MAY												
12...	280	1000	111	0	91	1800	13000	.00	.09	.55	.71	1.2
JUNE												
16...	180	880	115	0	94	2000	14000	.00	.05	.36	.46	.77
JULY												
07...	250	790	103	0	84	2000	15000	.01	.01	.15	.19	.61
AUG.												
04...	310	930	113	0	93	1800	14000	.00	.01	.49	.63	1.1
SEP.												
15...	280	900	121	0	99	1900	14000	.01	.02	.79	1.0	1.7

01209910 STAMFORD HARBOR AT STAMFORD, CONN.--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DEPTH (FT)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	SALINITY (PPT)
OCT.												
15...	3.0	.21	.87	3.9	.22	30300	29100	39.6	4300	4300	35000	10
NOV.												
04...	3.0	.11	.53	2.3	.16	28800	29100	39.6	4900	4800	35000	14
DEC.												
09...	3.0	.43	1.4	6.0	.24	27900	26200	35.6	5700	5600	26000	26
JAN.												
13...	3.0	.50	1.5	6.6	.30	27500	25900	35.2	4700	4600	24500	27
FEB.												
18...	3.0	.26	.92	4.1	.20	25400	25300	34.4	4200	4100	23000	24
MAR.												
10...	3.0	.80	2.8	12	.53	23500	22800	31.0	2300	2300	39600	26
APR.												
14...	3.0	.17	.44	1.9	.09	28000	27500	37.4	4400	4300	33400	22
MAY												
12...	3.0	.65	1.3	5.7	.23	26200	24800	33.7	4800	4700	34500	26
JUNE												
16...	3.0	.41	.82	3.6	.17	28300	27000	36.7	4100	4000	37800	24
JULY												
07...	3.0	.46	.62	2.7	.13	28900	28400	38.6	3900	3800	39400	25
AUG.												
04...	3.0	.61	1.1	4.9	.20	30400	27400	37.3	4600	4500	38000	26
SEP.												
15...	3.0	.91	1.7	7.6	.34	28800	27200	37.0	4400	4300	37000	27

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	PHENOLS (UG/L)
OCT.												
15...	6	1	4.5	120	34	12	4.8	0	.0	7.7	.0	--
NOV.												
04...	2	1	3.6	1600	2300	480	--	2	.1	4.0	3.7	0
DEC.												
09...	6	2	4.6	16000	9200	3100	4.6	0	.1	2.3	.7	--
JAN.												
13...	4	2	3.5	32000	20000	6000	3.3	0	.2	2.3	1.7	--
FEB.												
18...	9	2	4.4	20000	5400	7200	2.7	0	.1	--	--	--
MAR.												
10...	4	4	12	80000	46000	35000	16	0	.4	--	--	--
APR.												
14...	2	4	2.3	45	25	100	3.1	0	.1	.3	.0	--
MAY												
12...	1	2	3.5	120	80	6	4.9	0	.1	7.3	.0	--
JUNE												
16...	13	2	4.6	680	42	28	4.1	0	.1	8.7	.0	--
JULY												
07...	3	1	1.6	450	28	6	5.6	0	.1	16	.0	--
AUG.												
04...	2	2	3.6	3500	260	440	6.3	1	1.6	9.3	.0	--
SEP.												
15...	1	2	9.7	38000	2000	1400	6.3	0	.2	2.7	.0	--

01209910 STAMFORD HARBOR AT STAMFORD, CONN.--continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	2.4-D IN BOTTOM MATERIAL (UG/KG)
OCT. 15...	.0	25	10	2.1	.0	3.8	.0	.0	.0	.0	0	0

DATE	2.4.5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	PCB IN BOTTOM MATERIAL (UG/KG)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT. 15...	0	0	.0	.0	.0	.0	.0	.0	.0	250	13	29

DATE	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 15...	100	2.6	99600	7	3	120	20	13000	160	280	.5	262

As the number of streams on which streamflow is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum stage and discharge at crest-stage stations. All low-flow partial-record stations are also crest-stage stations.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1975

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements: Date	Measurements: Discharge (cfs)
		Mystic River basin				
01118750	Haleys Brook near Old Mystic	Lat 41°23'20", long 71°59'11", New London County, at bridge on Packer Road, 1.2 miles west of Old Mystic.	4.37	1962-65 1967 1969-75	8-5-75	0.40
		Thames River basin				
01119255	Delphi Brook near Staffordville	Lat 42°01'23", long 72°14'53", Tolland County, at culvert on State Highway 19, 2.1 miles northeast of Staffordville.	2.59	1962-75	8-6-75	.58
01119300	Roaring Brook near Staffordville	Lat 41°59'05", long 72°13'48", Tolland County, at abandoned bridge beside Bradway Road, 1.7 miles east of Stafford-ville.	5.61	1960-75	8-6-75	.88
01119360	Conat Brook at West Willington	Lat 41°52'17", long 72°17'31", Tolland County, at culvert on Kola Road, 0.5 mile southeast of W. Willington.	2.40	1963-75	7-18-75 7-22-75 7-29-75	1.65 3.42 1.16
01119820	Skungamaug River at N. Coventry	Lat 41°47'32", long 72°21'20", Tolland County, at bridge on State Highway 31, 1.0 mile southeast of N. Coventry.	24.7	*1962-64 1965-75	7-17-75 7-22-75 8-11-75	30 39 8.4
01120000	Hop River near Columbia	Lat 41°43'39", long 72°18'10", Tolland County, 1,500 ft down-stream from Hop River village, near Columbia.	74.8	*1933-71 1972-75	7-29-75	24
01121300	Fenton River at East Willington	Lat 41°52'20", long 72°14'31", Tolland County, at bridge on U.S. Highway 44, at East Willington.	11.4	1961-75	7-18-75 7-29-75	6.6 3.9
01122680	Merrick Brook near Scotland	Lat 41°43'44", long 72°05'08", Windham County, by Brook Street, 2.1 miles north of Scotland.	5.21	1964-75	8-4-75	.56
01125300	English Neighbor-hood Brook at North Woodstock	Lat 41°59'27", long 71°59'51", Windham County, at bridge on State Highway 169 at North Woodstock.	4.66	1961-75	6-13-75 7-30-75	13 .44

*Continuous-record station

Discharge measurements made at low-flow partial-record stations during water year 1975

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements: Date	Measurements: Discharge (cfs)
		Thames River basin--Continued				
01125600	Mashamoquet Brook at Abington	Lat 41°52'27", long 72°00'35", Windham County, at bridge on Taft Pond Road, 1 mile north of Abington.	11.1	1961-62 *1963 1964-75	7-30-75	1.9
01125650	Wappoquia Brook near Pomfret	Lat 41°51'57", long 71°57'30", Windham County, at bridge on Day Road, 2 miles south of Pomfret.	4.21	1961-75	6-13-75 7-30-75	16 .41
01125900	Cady Brook at East Putnam	Lat 41°54'32", long 71°49'11", Windham County, at bridge on East Putnam Road, 0.3 mile south of East Putnam.	8.29	1961-75	6-13-75 7-30-75	23 1.8
01126500	Moosup River at Moosup	Lat 41°42'37", long 71°53'11", Windham County, at Kaman Aircraft Corp. at Moosup.	83.6	*1933-71 1972-75	1-7-75 8-1-75	150 24
01126700	Kitt Brook near Canterbury	Lat 41°40'50", long 71°58'42", Windham County, at bridge on Mudhole (Elmdale) Road, 1.2 miles south of Canterbury.	11.1	1961-75	8-4-75	1.3
01127100	Broad Brook near Preston City	Lat 41°33'14", long 71°58'15", New London County, at bridge on State Highway 164, 1.8 miles north of Preston City.	12.5	1961-65 1967-75	8-4-75	2.0
01127400	Susquetonscut Brook at Yantic	Lat 41°34'15", long 72°08'01", New London County, at bridge on State Highway 87, 1 mile northwest of Yantic.	15.7	1961-75	8-5-75	1.5
01127760	Hunts Brook at Quaker Hill	Lat 41°24'04", long 72°07'16", New London County, at bridge on Old Norwich Road, at Quaker Hill.	11.5	1964-75	8-14-75	3.5
		Fourmile River basin				
01127800	Fourmile River near East Lyme	Lat 41°21'25", long 72°15'40", New London County, at twin culverts on Stones Ranch Road, 2.5 miles west of East Lyme.	4.30	1961-75	8-13-75	.80
		Connecticut River basin				
01183990	Jawbuck Brook near Hazardville	Lat 42°00'24", long 72°33'14", Hartford County, at culvert on Shaker Road, 1.5 miles north of Hazardville.	2.16	1963-75	8-6-75	1.2
01184100	Stony Brook near West Suffield	Lat 41°57'38", long 72°42'39", Hartford County, at bridge on South Grand Street, 2.1 miles south of West Suffield.	10.2	1960-75	8-13-75	12
01184260	Namerick Brook near Warehouse Point	Lat 41°54'13", long 72°36'47", Hartford County, at bridge on U.S. Highway 5, 1.7 miles south of Warehouse Point.	2.60	1963-75	8-13-75	.41
01184300	Gillette Brook at Somers	Lat 41°59'30", long 72°26'05", Tolland County, at twin culverts on Battle Street, 0.7 mile northeast of Somers.	3.64	1960-67 *1968-69 1970-75	8-6-75	.33
01184500	Scantic River at Broad Brook	Lat 41°54'42", long 72°33'48", Hartford County, upstream from bridge on State Highway 191, at Broad Brook.	98.2	*1929-71 1972-75	1-6-75 8-14-75	108 65

*Continuous-record station

Discharge measurements made at low-flow partial-record stations during water year 1975

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Connecticut River basin--Continued				
01188100	Roaring Brook at Unionville	Lat 41°45'24", long 72°52'59", Hartford County, at bridge on State Highway 4, at Unionville.	7.60	1961-75	7-24-75	9.6
01190050	Podunk River at Wapping	Lat 41°49'36", long 72°33'52", Hartford County, at bridge on State Highway 30, 0.5 mile west of Wapping.	4.34	1961-75	8-14-75	3.8
01190100	Piper Brook at Newington Junction	Lat 41°42'43", long 72°44'15", Hartford County, at bridge on Willard Avenue at Newington Junction.	14.6	*1959-71 1972-75	8-12-75	11
01190200	Mill Brook at Newington	Lat 41°42'16", long 72°43'34", Hartford County, at bridge on Dowd Street, 0.5 mile north of Newington.	2.65	*1959-71 1972-75	8-12-75	1.3
01191900	Charter Brook near Crystal Lake	Lat 41°54'22", long 72°24'15", Tolland County, at twin culverts on Browns Bridge Road, 2 miles southwest of Crystal Lake.	8.51	1961-75	7-29-75	2.6
01192650	Roaring Brook at Hopewell	Lat 41°39'50", long 72°34'55", Hartford County, at bridge on Matson Hill Road at Hopewell.	24.3	*1962-71 1973-75	8-18-75	10
01192800	Parmalee Brook near Durham	Lat 41°27'08", long 72°42'08", Middlesex County, at bridge on Sawmill Road, 2 miles southwest of Durham.	2.79	1961-75	7-15-75	12
01193120	Ponset Brook near Higganum	Lat 41°28'45", long 72°33'28", Middlesex County, at bridge on Skinner Road, 1.2 miles south of Higganum.	5.72	1962-75	7-31-75	1.4
01193250	Judd Brook near Colchester	Lat 41°35'55", long 72°21'12", New London County, at bridge on Colchester Road, 2 miles northwest of Colchester.	3.93	1962-75	8-11-75	2.1
01193300	Blackledge River near Gilead	Lat 41°41'46", long 72°27'22", Tolland County, at twin box culverts on State Highway 94, 3 miles west of Gilead, and 4 miles east of Buckingham.	6.75	1960-75	8-11-75	1.9
01194000	Eightmile River at North Plain	Lat 41°26'30", long 72°20'00", Middlesex County, at bridge on State Highway 82, at North Plain	20.1	*1937-66 1967-75	7-31-75	7.0
		Mill River basin				
01196600	Willow Brook near Cheshire	Lat 41°27'35", long 72°55'06", New Haven County, at bridge on Mt. Sanford Road, at corner of Harrison Avenue, 2.5 miles south of Cheshire.	9.34(rev)	1961-69 1971-74	-	-
		Wepawaug River basin				
01196700	Wepawaug River at Milford	Lat 41°14'10", long 73°03'32", New Haven County, by bridge on Walnut Street, at Milford.	18.4	1962-75	8-5-75	5.1

*Continuous-record station

Discharge measurements made at low-flow partial-record stations during water year 1975

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Housatonic River basin				
01198500	Blackberry River at Canaan	Lat 42°01'26", long 73°20'32", Litchfield County, at bridge on U.S. Highway 44, at Canaan.	45.9	*1949-71 1972-75	6-25-75	23
01198860	Deming Brook near Huntsville	Lat 41°57'52", long 73°18'07", Litchfield County, 20 feet downstream from Under Mountain Road, 1.5 miles northeast of Huntsville.	1.08	*1971-74 1975	6-25-75 8-18-75	.26 .73
01199150	Furnace Brook at Cornwall Bridge	Lat 41°49'06", long 73°22'11", Litchfield County, at bridge on State Highway 4, 0.2 mile from mouth, at Cornwall Bridge.	13.3	1961-75	8-13-75	5.3
01201510	Still River at Lanesville	Lat 41°32'12", long 73°25'04", Litchfield County, 0.9 mile upstream from mouth, at Lanesville.	69.6	a1931-66 *1967-71 1972-75	8-12-75	96
01201890	Pond Brook near Hawleyville	Lat 41°27'22", long 73°20'07", Fairfield County, at bridge on Pond Brook Road, 2 miles northeast of Hawleyville.	11.9	1963-75	8-6-75	3.9
01202700	Butternut Brook near Litchfield	Lat 41°44'35", long 73°13'14", Litchfield County, at bridge on Ripley Road, 1.5 miles west of Litchfield.	2.42	1960-63 1965-75	8-13-75	1.1
01203000	Shepaug River near Roxbury	Lat 41°32'59", long 73°19'49", Litchfield County, at Wellers Bridge, 1.2 miles southwest of Roxbury.	132	*1931-71 1972-75	8-4-75	34
01203100	Jacks Brook near Roxbury Falls	Lat 41°31'39", long 73°18'32", Litchfield County, at bridge on River Road, 1.2 miles north of Roxbury Falls.	7.90	1960-75	8-4-75	2.6
01203700	Wood Creek near Bethlehem	Lat 41°37'38", long 73°13'34", Litchfield County, at bridge on State Highway 132, 1.2 miles southwest of Bethlehem.	3.39	1961-75	8-13-75	2.0
01206400	Leadmine Brook near Harwinton	Lat 41°43'46", long 23°03'13", Litchfield County, at bridge on South Road, 3.0 miles south of Harwinton.	19.6	*1959-73 1974-75	7-24-75	22
01208100	Hancock Brook near Terryville	Lat 41°39'40", long 73°00'12", Litchfield County, at culvert on Waterbury Road, at corner of South Main Street, 1.1 miles south of Terryville.	1.18	1960-75	7-24-75	1.2
01208400	Hop Brook near Middlebury	Lat 41°31'25", long 73°05'38", New Haven County, at bridge on Shaddock Road, 1.5 miles east of Middlebury.	9.43	1961-75	8-4-75	4.5
01208700	Little River at Oxford	Lat 41°26'03", long 73°07'03", New Haven County, at bridge on Governor Hill Road, at Oxford.	4.54	1961-69 1971-75	8-4-75	1.5
		Pequonnock River basin				
01208850	Pequonnock River at Trumbull	Lat 41°14'49", long 73°11'52", Fairfield County, at bridge on Daniels Farm Road at Trumbull, 4.6 miles north of Bridgeport.	b11.8	1962-64 *1965-66 1967-75	8-5-75	8.5

*Continuous-record station
aContinuous-record station at former site no. 01201500, 2 miles upstream; drainage area 67.5 sq mi.
bEffective drainage area; does not include 3.8 sq mi from which low flow is entirely diverted into Easton Reservoir.

Discharge measurements made at low-flow partial-record stations during water year 1975

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Mill River basin				
01208900	Patterson Brook near Easton	Lat 41°17'16", long 73°17'33", Fairfield County, at culvert on State Highway 59, 2.5 miles north of Easton.	1.21	1961-65 1967-75	8-5-75	.15
		Norwalk River basin				
01209600	Comstock Brook at North Wilton	Lat 41°12'45", long 73°27'31", Fairfield County, at bridge on Nod Hill Road, at North Wilton.	3.53	1961-65 1967-75 Discontinued	7-30-75	2.1
		Fivemile River basin				
01209770	Fivemile River near Norwalk	Lat 41°06'02", long 73°27'18", Fairfield County, at bridge on West Cedar Street, 1.8 miles west of Norwalk.	8.96	1962-75	7-30-75	8.3
		Byram River basin				
01211700	East Branch Byram River at Round Hill	Lat 41°05'56", long 73°41'00", Fairfield County, at bridge on John Street, 0.8 mile west of Round Hill.	1.69	1961-75	7-30-75	.74
01212100	East Branch Byram River at Riversville	Lat 41°03'39", long 73°40'31", Fairfield County, at bridge on Riversville Road just downstream from Merritt Parkway, and 0.2 mile upstream from mouth.	c11.1	1961-62 *1963-69 1970-75	7-30-75	6.4

*Continuous-record station
cIncludes 3.7 sq mi from which a portion of the flow is diverted into Putnam Lake.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined. Each station in this table is also a low-flow partial-record station, unless station number is preceded by reference mark "a".

Annual maximum discharge at crest-stage partial-record stations during water year 1975

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (cfs)
		Mystic River basin					
01118750	Haleys Brook near Old Mystic	Lat 41°23'20", long 71°59'11", New London County, at bridge on Packer Road, 1.2 miles west of Old Mystic.	4.37	1962-75	2-25-75	2.92	55
		Thames River basin					
01119255	Delphi Brook near Staffordville	Lat 42°01'23", long 72°14'53", Tolland County, at culvert on State Highway 19, 2.1 miles northeast of Staffordville.	2.59	1964-75	9-27-75	1.75	110
01119300	Roaring Brook near Staffordville	Lat 41°59'05", long 72°13'48", Tolland County, at abandoned bridge beside Bradway Road, 1.7 miles east of Staffordville.	5.61	1960-75	9-27-75	3.46	300
01119360	Conat Brook at West Willington	Lat 41°52'17", long 72°17'31", Tolland County, at culvert on Kola Road, 0.5 mile southeast of West Willington.	2.40	1964-75	3-20-75	2.71	44
01119820	Skungamaug River at North Coventry	Lat 41°47'32", long 72°21'20", Tolland County, at bridge on State Highway 31, 1.0 mile southeast of North Coventry.	24.7	*1963-64 1965-75	9-27-75	2.88	660
01120000	Hop River near Columbia	Lat 41°43'39", long 72°18'10", Tolland County, 1,500 feet downstream from Hop River village near Columbia.	74.8	*1933-71 1972-75	9-27-75	9.02	1,520
01121300	Fenton River at East Willington	Lat 41°52'20", long 72°14'31", Tolland County, at bridge on U.S. Highway 44, at East Willington.	11.4	1964-75	3-20-75	3.29	230
01122680	Merrick Brook near Scotland	Lat 41°43'44", long 72°05'08", Windham County, by Brook Street, 2.1 miles north of Scotland.	5.21	1964-75	3-20-75	3.02	190
01125300	English Neighborhood Brook at North Woodstock	Lat 41°59'27", long 72°59'51", Windham County, at bridge on State Highway 169, at North Woodstock.	4.66	1962-75	3-20-75	3.44	185
a01125490	Little River at Harrisville	Lat 41°55'39", long 71°55'50", Windham County, at bridge on Tripp Road, 0.5 mile east of Harrisville.	35.8	†1936 †1938 *1962-71 1972-75	3-20-75	5.06	550
01125600	Mashamoquet Brook at Abington	Lat 41°52'27", long 72°00'35", Windham County, at bridge on Taft Pond Road, 1 mile north of Abington.	11.1	*1963 1964-75	12-9-74	3.65	320
01125650	Wappoquia Brook near Pomfret	Lat 41°51'57", long 71°57'30", Windham County, at bridge on Day Road, 2 miles south of Pomfret.	4.21	1964-75	12-9-74	3.29	215

*Continuous-record station
†Peak-flow determination
aNot a low-flow partial-record station

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Thames River basin--Continued					
01125900	Cady Brook at East Putnam	Lat 41°54'32", long 71°49'11", Windham County, at bridge on East Putnam Road, 0.3 mile south of East Putnam.	8.29	1964-75	12-9-74	2.73	150
a01126000	Fivemile River at Killingly	Lat 41°50'14", long 71°53'09", Windham County, at Penn Central Railroad Co. bridge 0.6 mile south of Killingly.	57.8	†1936 *1938-71 1972-75	1-13-75	3.57	518
01126500	Moosup River at Moosup	Lat 41°42'37", long 71°53'11", Windham County, at Kaman Aircraft Corp. at Moosup.	83.6	*1933-71 1972-75	2-25-75	3.93	915
01126700	Kitt Brook near Canterbury	Lat 41°40'50", long 71°58'42", Windham County, at bridge on Mudhole (Elmdale) Road, 1.2 miles south of Canterbury.	11.1	1964-75	4-3-75	2.27	120
01127100	Broad Brook near Preston City	Lat 41°33'14", long 71°58'15", New London County, at bridge on State Highway 164, 1.8 miles north of Preston City.	12.5	1961-75	4-3-75	3.08	235
01127400	Susquetonscut Brook at Yantic	Lat 41°34'15", long 72°08'01", New London County, at bridge on State Highway 87, 1 mile northwest of Yantic.	15.7	1962-75	3-20-75	3.27	240
01127700	Trading Cove Brook near Thamesville	Lat 41°30'03", long 72°06'59", New London County at culvert on Connecticut Turnpike, 1.5 miles west of Thamesville and 3 miles southwest of Norwich.	8.57	1961-74 Discontinued September 1974	3-21-74	4.05	430
01127760	Hunts Brook at Quaker Hill	Lat 41°24'04", long 72°07'16", New London County, at bridge on Old Norwich Road, at Quaker Hill.	11.5	1964-75	3-20-75	3.03	210
		Fourmile River basin					
01127800	Fourmile River near East Lyme	Lat 41°21'25", long 72°15'40", New London County, at twin culverts on Stones Ranch Road, 2.5 miles west of East Lyme.	4.30	1961-75	3-20-75	2.40	62
		Connecticut River basin					
01183990	Jawbuck Brook near Hazardville	Lat 42°00'24", long 72°33'14", Hartford County, at culvert on Shaker Road, 1.5 miles north of Hazardville	2.16	1967-75	5-26-67 3-18-68 8-5-69 4-2-70 3-3-72 9-6-73(rev) 12-21-73 9-26-75	2.44 2.34 2.40 3.33 3.41 3.10(rev) 4.21 3.84	34(rev) 31(rev) 33(rev) 60(rev) 60(rev) 51(rev) 87(rev) 75
01184100	Stony Brook near West Suffield	Lat 41°57'38", long 72°42'39", Hartford County, at bridge on South Grand Street, 2.1 miles south of West Suffield	10.2	1960-75	9-27-75	4.82	830
01184260	Namerick Brook near Warehouse Point	Lat 41°54'13", long 72°36'47", Hartford County, at bridge on U.S. Highway 5, 1.7 miles south of Warehouse Point.	2.60	1964-75	9-27-75	4.59	320

*Continuous-record station
†Peak-flow determination
aNot a low-flow partial-record station

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Connecticut River basin--Continued					
01184300	Gillette Brook at Somers	Lat 41°59'30", long 72°26'05", Tolland County, at twin culverts on Battle Street, 0.7 mile northeast of Somers.	3.64	1960-67 *1968-69 1970-75	9-27-75	6.38	375
01184500	Scantic River at Broad Brook	Lat 41°54'42", long 71°33'48", Hartford County, upstream from bridge on State Highway 191, at Broad Brook.	98.2	*1929-71 1972-75	9-27-75	10.87	2,240
a01187800	Nepaug River near Nepaug	Lat 41°49'14", long 72°58'14", Litchfield County, beside U.S. Highway 202, 0.2 mile upstream from Nepaug Reservoir.	23.5	‡1922-55 *1958-72 1973-75	2-3-73 12-21-73 9-26-75	4.90 7.20 5.92	1,000 2,280 1,510
01188100	Roaring Brook at Unionville	Lat 41°45'24", long 72°52'59", Hartford County, at bridge on State Highway 4, at Unionville.	7.60	1962-75	2-2-73 12-21-73 9-26-75	2.66 1.85 1.95	700(rev) 220(rev) 255
01189180	Hop Brook at West Simsbury	Lat 41°52'28", long 72°51'42", Hartford County, at culvert on West Mountain Road at West Simsbury.	1.38	*1967-71	4-29-68 4-22-69 4-2-70	3.00 3.07 3.33	45(rev) 50(rev) 70(rev)
a01189200	Stratton Brook near Simsbury	Lat 41°52'12", long 72°49'29", Hartford County, at bridge on Farms Village Road, 400 feet upstream from mouth, and 1 mile west of Simsbury.	5.19	1964-66 *1967-71 1972-75	12-21-73 9-26-75	2.61 2.87	200(rev) 230
01190050	Podunk River at Wapping	Lat 41°49'36", long 72°33'52", Hartford County, at bridge on State Highway 30, 0.5 mile west of Wapping.	4.34	1962-75	9-26-75	4.91	120
01190100	Piper Brook at Newington Junction	Lat 41°42'43", long 72°44'15", Hartford County, at bridge on Willard Avenue at Newington Junction.	14.6	†1955 1959-71 1972-75	3-6-59 9-12-60 3-12-62 2-25-65 3-25-69 2-3-70 6-30-72 2-2-73 12-21-73 9-26-75	7.03 8.40 6.54 6.87 6.63 7.05 6.73 7.34 8.27 7.27	920(rev) 1,700(rev) 750(rev) 850(rev) 760(rev) 940(rev) 820(rev) 1,100(rev) 1,600(rev) 1,050
01190200	Mill Brook at Newington	Lat 41°42'16", long 72°43'34", Hartford County, at bridge on Dowd Street, 0.5 mile north of Newington.	2.65	†1955 *1959-71 1972-75	9-26-75	5.83	290
01191900	Charter Brook near Crystal Lake	Lat 41°54'22", long 72°24'15", Tolland County, at twin culverts on Browns Bridge Road, 2 miles southwest of Crystal Lake.	8.51	1965-75	12-21-73 9-26-75	4.52 3.70	600(rev) 390
a01192500	Hockanum River near East Hartford	Lat 41°46'59"(rev), long 72°35'16", Hartford County, 0.2 mile upstream from bridge on Walnut Street near East Hartford.	73.4	*1920-71 1972-75	9-26-75	8.48	1,730
01192650	Roaring Brook at Hopewell	Lat 41°39'50", long 72°34'55", Hartford County, at bridge on Matson Hill Road at Hopewell.	24.3	*1962-71 1972-75	4-3-75	3.60	460
a01192700	Mattabesset River at East Berlin	Lat 41°37'08", long 72°42'48", Hartford County, at bridge on Berlin Street, at East Berlin.	46.5	*1962-71 1972-75	9-27-75	6.69	2,350

*Continuous-record station
†Peak-flow determination
‡Maximum dailies
aNot a low-flow partial-record station

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Connecticut River basin--Continued					
01192800	Parmalee Brook near Durham	Lat 41°27'08", long 72°42'08", Middlesex County, at bridge on Sawmill Road, 2 miles southwest of Durham.	2.79	1960-75	12-9-74	4.01	310
01193120	Ponset Brook near Higganum	Lat 41°28'45", long 72°33'28", Middlesex County, at bridge on Skinner Road, 1.2 miles south of Higganum.	5.72	1962-75	4-3-75	2.91	180
01193250	Judd Brook near Colchester	Lat 41°35'55", long 72"21'12", New London County, at bridge on Colchester Road, 2 miles northwest of Colchester.	3.93	1962-75	4-3-75	3.08	110
01193300	Blackledge River near Gilead	Lat 41°41'46", long 72°27'22", Tolland County, at twin box culverts on State Highway 94, 3 miles west of Gilead, and 4 miles east of Buckingham.	6.75	1960-75	9-26-75	3.92	220
01194000	Eightmile River at North Plain	Lat 41°26'30", long 72°20'00", Middlesex County, at bridge on State Highway 82, at North Plain.	20.1	*1938-66 1967-75	4-3-75	5.61	655
		Quinnipiac River basin					
a01196580	Muddy River near North Haven	Lat 41°22'07", long 72°50'31", New Haven County, at bridge on Velvet Street, 2 miles southeast of North Haven.	18.0	*1963-73 1974-75	3-20-75	2.55	495
		Mill River basin					
01196600	Willow Brook near Cheshire	Lat 41°27'35", long 72°55'06", New Haven County, at bridge on Mt. Sanford Road, at corner of Harrison Avenue, 2.5 miles south of Cheshire.	9.34(Rev)	1960-75	9-26-75	5.38	290
		Wepawaug River basin					
01196700	Wepawaug River at Milford	Lat 41°14'10", long 73°03'32", New Haven County, by bridge on Walnut Street, at Milford.	18.4	1962-75	4-3-75	3.59	320
		Housatonic River basin					
01198500	Blackberry River at Canaan	Lat 42°01'26", long 73°20'32", Litchfield County, at bridge on U.S. Highway 44, at Canaan.	45.9	*1949-71 1972-75	9-27-75	7.71	1,340
01198860	Deming Brook near Huntsville	Lat 41°57'52", long 73"18'07", Litchfield County, 20 feet downstream from Under Mountain Road, 1.5 miles northeast of Huntsville.	1.08	*1971-74 1975	9-27-75	1.91	74
01199150	Furnace Brook at Cornwall Bridge	Lat 41°49'06", long 73°22'11", Litchfield County, at bridge on State Highway 4, 0.2 mile from mouth at Cornwall Bridge.	13.3	†1945 †1949 †1955 1962-75	9-27-75	5.86	860
01201510	Still River at Lanesville	Lat 41°32'12", long 73°25'04", Litchfield County, 0.9 mile upstream from mouth, at Lanesville.	69.6	b1932-66 *1967-71 1972-75	9-27-75	8.70	4,140

*Continuous-record station
†Peak-flow determination
aNot a low-flow partial-record station
bContinuous-record station at former site no. 01201500, 2 miles upstream; drainage area 67.5 sq mi.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Housatonic River basin--Continued					
01201890	Pond Brook near Hawleyville	Lat 41°27'22", long 73°20'07", Fairfield County, at bridge on Pond Brook Road, 2 miles northeast of Hawleyville.	11.9	1963-75	2-2-73 12-21-73 9-26-75	6.14 6.85 7.81	930(rev) 1,150(rev) 1,400
01202700	Butternut Brook near Litchfield	Lat 41°44'35", long 73°13'14", Litchfield County, at bridge on Ripley Road, 1.5 miles west of Litchfield.	2.42	1960-75	2-2-73 12-21-73 9-26-75	7.91 6.79 6.78	630(rev) 500(rev) 500
01203000	Shepaug River near Roxbury	Lat 41°32'59", long 73°19'49", Litchfield County, at Wellers Bridge, 1.2 miles southwest of Roxbury.	132	*1931-71 1972-75	9-27-75	11.8	10,000
01203100	Jacks Brook near Roxbury Falls	Lat 41°31'39", long 73°18'32", Litchfield County, at bridge on River Road, 1.2 miles north of Roxbury Falls.	7.90	1961-75	9-26-75	7.82	-
a01203510	Pootatuck River at Sandy Hook	Lat 41°25'13", long 73°16'58", Fairfield County, at bridge on Church Hill Road, at Sandy Hook.	24.8	*1966-73 1974-75	9-27-75	6.04	764
01203700	Wood Creek near Bethlehem	Lat 41°37'38", long 73°13'34", Litchfield County, at bridge on State Highway 132, 1.2 miles southwest of Bethlehem.	3.39	1962-75	9-26-75	4.61	-
01206400	Leadmine Brook near Harwinton	Lat 41°43'46", long 73°03'13", Litchfield County, at bridge on South Road, 3.0 miles south of Harwinton.	19.6	*1959-73 1974-75	9-27-75	8.85	1,820
01208100	Hancock Brook near Terryville	Lat 41°39'40", long 73°00'12", Litchfield County, at culvert on Waterbury Road, at corner of South Main Street, 1.1 miles south of Terryville.	1.18	1960-75	9-26-75	5.19	-
01208400	Hop Brook near Middlebury	Lat 41°31'25", long 73°05'38", New Haven County, at bridge on Shaddock Road, 1.5 miles east of Middlebury.	9.43	†1955 1962-75	9-26-75	6.22	1,300
01208700	Little River at Oxford	Lat 41°26'03", long 73°07'03", New Haven County, at bridge on Governor Hill Road, at Oxford.	4.54	1960-75	9-26-75	4.78	340
		Pequonnock River basin					
01208850	Pequonnock River at Trumbull	Lat 41°14'49", long 73°11'52", Fairfield County, at bridge on Daniels Farm Road at Trumbull, 4.6 miles north of Bridgeport.	c15.6	†1956 1962-64 *1965-66 1967-75	3-20-75	2.94	370

*Continuous-record station
†Peak-flow determination
aNot a low-flow partial-record station
cIncludes 3.8 sq mi from which a portion of the flow is diverted into Easton Reservoir.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Mill River basin					
01208900	Patterson Brook near Easton	Lat 41°17'16", long 73°17'33", Fairfield County, at culvert on State Highway 59, 2.5 miles north of Easton.	1.21	1960-75	9-12-60	4.59	60(rev)
					4-16-61	3.92	41(rev)
					3-12-62	5.37	82(rev)
					3-6-63	4.44	56(rev)
					1-25-64	4.11	47(rev)
					2-8-65	4.55	58(rev)
					2-13-66	3.95	41(rev)
					4-18-67	3.53	31(rev)
					5-29-68	4.99	71(rev)
					3-25-69	5.08	73(rev)
					4-2-70	5.32	80(rev)
					9-14-71	-	80(rev)
					6-19-72	5.1	74(rev)
					6-30-73	5.94	96(rev)
					12-21-73	5.12	75(rev)
					5-5-75	4.64	62
		Norwalk River basin					
01209600	Comstock Brook at North Wilton	Lat 41°12'45", long 73°27'31", Fairfield County, at bridge on Nod Hill Road, at North Wilton.	3.53	1960-75 Discontinued	9-12-60	3.89	190(rev)
					2-26-61	3.29	130(rev)
					3-12-62	3.84	175(rev)
					3-6-63	3.28	115(rev)
					1-21-64	3.11	90(rev)
					2-8-65	2.94	75(rev)
					2-13-66	3.20	100(rev)
					3-7-67	-	110(rev)
					5-29-68	3.39	115(rev)
					3-25-69	3.44	125(rev)
					4-2-70	3.76	160(rev)
					9-14-71	3.91	180(rev)
					6-19-72	3.38	115(rev)
					2-2-73	4.01	190(rev)
					12-21-73	4.15	210(rev)
					9-26-75	5.69	440
		Fivemile River basin					
01209770	Fivemile River near Norwalk	Lat 41°06'02", long 73°27'18", Fairfield County, at bridge on West Cedar Street, 1.8 miles west of Norwalk.	8.96	†1956 1962-75	3-12-62	5.10	800(rev)
					3-6-63	3.24	330(rev)
					2-13-66	3.51	400(rev)
					5-29-68	3.92	490(rev)
					3-25-69	3.64	420(rev)
					2-3-70	3.76	450(rev)
					9-14-71	4.27	580(rev)
					6-19-72	6.09	1,150(rev)
					12-6-72	3.89	480(rev)
					9-3-74	4.79	720(rev)
					9-26-75	5.08	790
		Byram River basin					
01211700	East Branch Byram River at Round Hill	Lat 41°05'56", long 73°41'00", Fairfield County, at bridge on John Street, 0.8 mile west of Round Hill.	1.69	1960-75	9-26-75	3.37	170
01212100	East Branch Byram River at Riversville	Lat 41°03'39", long 73°40'31", Fairfield County, at bridge on Riversville Road just downstream from Merritt Parkway, 0.2 mile upstream from mouth.	d11.1	*1963-69 1970-75	9-26-75	6.75	1,200

*Continuous-record station
†Peak-flow determination
dIncludes 3.7 sq mi from which a portion of the flow is diverted into Putnam Lake.

The time needed to move water and waterborne materials from point to point in a stream, for steady or gradually varied flow conditions, is called the time of travel between those points. Time of travel can be measured by floats, by analyzing stream velocities at selected cross sections, and by tracking various chemicals. The method used in these studies was a chemical-tracking method using fluorescent dye. The method required injecting fluorescent dye into a stream and sampling at a downstream point until the slug of dye had passed. The time necessary for the peak concentration of the dye to pass from the point of injection to the point of sampling was considered the travel time between the points.

CONNECTICUT RIVER BASIN

Scantic River Time of Travel Study

October 20-23, 1965

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Town Farm Road near Enfield to Church Street at Broad Brook	6.0	26	27	0.32
Church Street at Broad Brook to Route 5 at East Windsor	7.2	55	30	.38
Total	13.2	--	57	0.34

Scantic River Time of Travel Study

April 27-29, 1966

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Town Farm Road near Enfield to Church Street at Broad Brook	6.0	63	12 3/4	0.69
Church Street at Broad Brook to Route 5 at East Windsor	7.2	90	17 3/4	.60
Total	13.2	--	30 1/2	0.63

Pequabuck River Time of Travel Study

August 12-13, 1975

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Sewage Treatment Plant on Canal Street at Terryville to State Highway 72 at Bristol	1.4	5.2	4 1/2	0.5
State Highway 72 at Bristol to Middle Street at Forestville	2.6	--	4 1/4	.9
Middle Street at Forestville to State Highway 177 at Plainville	3.1	37	5 1/4	.9
State Highway 177 at Plainville to R.R. Bridge at STP at Plainville	1.4	--	2 1/4	.9
R.R. Bridge at STP at Plainville to Highway 6 and 202 near Farmington	2.0	--	3 3/4	.8
State Highway 6 and 202 near Farmington to Meadow Road at Farmington	1.5	55	5 3/4	.4
Total	12.0	--	25 3/4	0.7

Hockanum River Time of Travel Study

November 1-5, 1965

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Preston Street at East Hartford to Forbes Street at East Hartford	1.8	25	24 1/2	0.11
Forbes Street at East Hartford to Hillside Street at East Hartford	1.0	28	7 1/4	.20
Hillside Street at East Hartford to Main Street at East Hartford	3.0	33	35	.13
Total	5.8	--	66 3/4	0.13

Hockanum River Time of Travel Study

May 2-4, 1966

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Preston Street at East Hartford to Forbes Street at East Hartford	1.8	72	9	0.29
Forbes Street at East Hartford to Hillside Street at East Hartford	1.1	78	2 1/2	.59
Hillside Street at East Hartford to Main Street at East Hartford	3.0	88	13 1/4	.34
Total	5.8	--	24 3/4	0.34

Hockanum River Time of Travel Study

October 25-31, 1974

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Route 74 at Vernon to Dart Hill Road at Vernon	1.5	46	3	0.8
Dart Hill Road at Vernon to Overbrook Road at Vernon	1.6	51	3	.8
Overbrook Road at Vernon to to Tolland Turnpike at Manchester	2.0	64	1	1.5
Tolland Turnpike at Manchester to Union Street at Manchester	1.0	77	17 1/2	.1
Union Street at Manchester to North Main Street at Manchester	.5	80	1/2	1.5
North Main Street at Manchester to Route 6 at Manchester	2.6	86	3	1.3
Route 6 at Manchester to Walnut Street at East Hartford	2.1	100	4	.8
Walnut Street at East Hartford to Forbes Street at East Hartford	1.4	111	7	.3
Forbes Street at East Hartford to Hillside Street at East Hartford	1.0	112	3	.5
Hillside Street at East Hartford to Main Street at East Hartford	2.5	113	13	.3
Total	16.2	--	55	0.4

Mattabesset River Time of Travel Study

October 18-19, 1965

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Route 15 at Berlin to Berlin Street at East Berlin	2.6	38	13 1/4	0.29
Berlin Street at East Berlin to Route 72 near Cromwell	3.5	42	12 3/4	.40
Total	6.1	--	26	0.34

Mattabesset River Time of Travel Study

April 25-26, 1966

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Route 15 at Berlin to Berlin Street at East Berlin	2.6	62	8	0.47
Berlin Street at East Berlin to Route 72 near Cromwell	3.5	93	16	0.32
Total	6.1	--	24	0.37

FARM RIVER BASIN

Farm River Time of Travel Study

September 15-21, 1975

(Data which apply to primary dye-cloud peak are shown first in table; data which apply to secondary peak are shown in parentheses.)

Stream Reach	Length (miles)	Discharge (cubic feet per second)	Travel Time (hours)	Average Velocity (feet per second)
Reeds Gap Road near Northford to Twin Rivers Ranch Road near Northford	1.3	1.0	24 (27)	0.08 (0.07)
Twin Rivers Ranch Road near Northford to State Highway 22 at Northford	2.1	2.2	28 (31)	.11 (.10)
State Highway 22 at Northford to Augur Road near Northford	1.7	5.2	14 (15)	.18 (.17)
Augur Road near Northford to Mill Road at Totoket	2.0	5.4	40 (42)	.07 (.07)
Mill Road at Totoket to River Road at Foxon	2.2	.5	31 (33)	.10 (.10)
River Road at Foxon to Gun Club Road at East Haven	3.0	2.0	43 (44)	.10 (.10)
Gun Club Road at East Haven to Main Street at East Haven	1.8	2.9	26 (27)	.10 (.10)
Total	14.1	--	206 (219)	0.10 (0.09)

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)
LONG ISLAND SOUND									
01118620 - STONINGTON HARBOR AT STONINGTON, CT. (LAT 41 20 30 LONG 072 54 44)									
MAY , 1975									
23...	1030	6500	0	24	4	16000	8	93	.0
01118621 - STONINGTON HARBOR AT STONINGTON, CT. (LAT 41 20 02 LONG 072 54 46)									
MAY , 1975									
23...	1115	3100	0	17	10	5400	13	51	.1
01118622 - STONINGTON HARBOR AT STONINGTON, CT. (LAT 41 19 34 LONG 072 54 35)									
MAY , 1975									
23...	1200	2200	0	10	6	4600	12	44	.0
01196627 - NEW HAVEN HARBOR AT NEW HAVEN, CT. (LAT 41 17 53 LONG 072 54 20)									
MAY , 1975									
21...	1100	11000	9	340	370	30000	170	380	.6
01196628 - NEW HAVEN HARBOR AT NEW HAVEN, CT. (LAT 41 16 56 LONG 072 54 38)									
MAY , 1975									
21...	1200	1300	0	25	11	3300	8	28	.1
01196657 - NEW HAVEN HARBOR @ NEW HAVEN (LAT 41 15 44 LONG 072 54 53)									
MAY , 1975									
21...	1300	8200	0	34	9	27000	14	500	.0
01196720 - MILFORD HARBOR AT MILFORD, CT. (LAT 41 12 43 LONG 073 03 01)									
MAY , 1975									
15...	1100	5200	0	36	44	15000	29	180	.1
01196721 - MILFORD HARBOR AT MILFORD, CT. (LAT 41 12 36 LONG 073 02 57)									
MAY , 1975									
15...	1200	1700	0	9	10	3400	10	44	.5
01196722 - THE GULF NEAR MILFORD, CT. (LAT 41 12 23 LONG 073 02 57)									
MAY , 1975									
15...	1000	1100	2	11	15	2800	4	35	.0
01208860 - BRIDGEPORT HARBOR AT BRIDGEPORT, CT (LAT 41 09 48 LONG 073 10 14)									
MAY , 1975									
16...	1000	10000	6	410	500	28000	190	410	.4
01208861 - BRIDGEPORT HARBOR AT BRIDGEPORT, CT. (LAT 41 09 16 LONG 073 10 43)									
MAY , 1975									
16...	1045	1100	0	17	41	2400	8	34	.0
01208862 - LONG ISLAND SOUND NEAR BRIDGEPORT, CT. (LAT 41 09 02 LONG 073 10 47)									
MAY , 1975									
16...	1130	8300	2	330	410	22000	92	610	.3

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ANALYSES OF MISCELLANEOUS STATIONS

LONG ISLAND SOUND--continued

DATE	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL NITROGEN IN BOTTOM MATERIAL (N) (MG/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	OIL AND GREASE IN BOTTOM MATERIAL (MG/KG)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM
01118620 - STONINGTON HARBOR AT STONINGTON, CT. (LAT 41 20 30 LONG 072 54 44)								
MAY , 1975								
23...	8	20	5900	210000	2900	100	35	15
01118621 - STONINGTON HARBOR AT STONINGTON, CT. (LAT 41 20 02 LONG 072 54 46)								
MAY , 1975								
23...	3	24	530	33000	.0	100	23	7
01118622 - STONINGTON HARBOR AT STONINGTON, CT. (LAT 41 19 34 LONG 072 54 35)								
MAY , 1975								
23...	0	20	670	24000	.0	100	22	5
01196627 - NEW HAVEN HARBOR AT NEW HAVEN, CT. (LAT 41 17 53 LONG 072 54 20)								
MAY , 1975								
21...	85	570	4500	120000	3400	100	6	3
01196628 - NEW HAVEN HARBOR AT NEW HAVEN, CT. (LAT 41 16 56 LONG 072 54 38)								
MAY , 1975								
21...	8	28	170	15000	.0	100	90	34
01196657 - NEW HAVEN HARBOR @ NEW HAVEN (LAT 41 15 44 LONG 072 54 53)								
MAY , 1975								
21...	21	57	930	46000	320	100	74	31
01196720 - MILFORD HARBOR AT MILFORD, CT. (LAT 41 12 43 LONG 073 03 01)								
MAY , 1975								
15...	8	75	1500	68000	.0	100	4	2
01196721 - MILFORD HARBOR AT MILFORD, CT. (LAT 41 12 36 LONG 073 02 57)								
MAY , 1975								
15...	1	27	240	10000	90	100	41	17
01196722 - THE GULF NEAR MILFORD, CT. (LAT 41 12 23 LONG 073 02 57)								
MAY , 1975								
15...	0	18	150	23000	.0	100	51	38
01208860 - BRIDGEPORT HARBOR AT BRIDGEPORT, CT (LAT 41 09 48 LONG 073 10 14)								
MAY , 1975								
16...	35	350	3600	97000	1600	100	73	17
01208861 - BRIDGEPORT HARBOR AT BRIDGEPORT, CT. (LAT 41 09 16 LONG 073 10 43)								
MAY , 1975								
16...	1	29	100	8000	540	100	3	2
01208862 - LONG ISLAND SOUND NEAR BRIDGEPORT, CT. (LAT 41 09 02 LONG 073 10 47)								
MAY , 1975								
16...	24	260	2700	73000	330	100	62	17

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)
LONG ISLAND SOUND--continued									
01208863 - CEDAR CREEK AT BLACK ROCK, CT. (LAT 41 09 22 LONG 073 12 55)									
MAY , 1975									
22...	1030	12000	19	2000	1900	29000	430	320	.8
01208864 - BLACK ROCK HARBOR AT BLACK ROCK CT. (LAT 41 09 02 LONG 073 13 09)									
MAY , 1975									
22...	1130	9800	5	1500	1400	29000	290	340	.7
01208865 - LONG ISLAND SOUND NEAR BLACK ROCK, CT. (LAT 41 08 17 LONG 073 13 11)									
MAY , 1975									
22...	1230	3700	0	58	92	8200	18	100	.8
01209755 - NORWALK RIVER AT EAST NORWALK, CT. (LAT 41 05 44 LONG 073 24 47)									
JUNE, 1975									
06...	1330	9600	3	160	220	26000	140	540	.4
01209756 - NORWALK HARBOR AT EAST NORWALK, CT. (LAT 41 05 27 LONG 073 24 24)									
JUNE, 1975									
06...	1400	9400	2	150	210	26000	110	410	.5
01209757 - SHEFFIELD ISLAND HARBOR NEAR ROWAYTON, CT. (LAT 41 03 35 LONG 073 25 06)									
JUNE, 1975									
06...	1430	6600	1	81	97	17000	54	320	.2
01209789 - EAST BRANCH STAMFORD HARBOR AT STAMFORD, CT. (LAT 41 02 05 LONG 073 32 10)									
MAY , 1975									
19...	1100	9600	6	130	280	28000	110	330	.7
01210002 - STAMFORD HARBOR AT STAMFORD, CT. (LAT 41 01 36 LONG 073 32 17)									
MAY , 1975									
19...	1200	10000	3	170	220	27000	100	480	.5
01210003 - STAMFORD HARBOR AT STAMFORD,CT. (LAT 41 01 08 LONG 073 32 12)									
MAY , 1975									
19...	1300	8500	3	110	130	21000	61	330	.3
01211230 - GREENWICH HARBOR AT GREENWICH, CT. (LAT 41 00 40 LONG 073 37 32)									
JUNE, 1975									
06...	1130	9400	2	140	200	26000	110	390	.6
01211232 - GREENWICH HARBOR AT GREENWICH, CT. (LAT 41 00 28 LONG 073 37 23)									
JUNE, 1975									
06...	1200	8600	2	130	150	23000	110	420	.4
01211234 - GREENWICH HARBOR AT GREENWICH, CT. (LAT 41 00 14 LONG 073 37 18)									
JUNE, 1975									
06...	1230	3000	0	33	37	7800	30	160	.1

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL NITROGEN IN BOTTOM MATERIAL (N) (MG/KG)	LOSS ON IGNITION IN BOTTOM MATERIAL (MG/KG)	OIL AND GREASE IN BOTTOM MATERIAL (MG/KG)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM
LONG ISLAND SOUND--continued								
01208863 - CEDAR CREEK AT BLACK ROCK, CT. (LAT 41 09 22 LONG 073 12 55)								
MAY , 1975								
22...	130	1500	8900	25000	4600	100	41	14
01208864 - BLACK ROCK HARBOR AT BLACK ROCK CT. (LAT 41 09 02 LONG 073 13 09)								
MAY , 1975								
22...	78	830	5000	120000	3300	100	92	26
01208865 - LONG ISLAND SOUND NEAR BLACK ROCK, CT. (LAT 41 08 17 LONG 073 13 11)								
MAY , 1975								
22...	10	77	370	15000	100	100	10	6
01209755 - NORWALK RIVER AT EAST NORWALK, CT. (LAT 41 05 44 LONG 073 24 47)								
JUNE, 1975								
06...	26	260	4400	100000	1200	100	77	25
01209756 - NORWALK HARBOR AT EAST NORWALK, CT. (LAT 41 05 27 LONG 073 24 24)								
JUNE, 1975								
06...	26	220	4000	96000	830	100	78	23
01209757 - SHEFFIELD ISLAND HARBOR NEAR ROWAYTON, CT. (LAT 41 03 35 LONG 073 25 06)								
JUNE, 1975								
06...	18	150	1700	50000	1600	100	32	15
01209789 - EAST BRANCH STAMFORD HARBOR AT STAMFORD, CT. (LAT 41 02 05 LONG 073 32 10)								
MAY , 1975								
19...	20	280	1700	74000	520	100	65	26
01210002 - STAMFORD HARBOR AT STAMFORD, CT. (LAT 41 01 36 LONG 073 32 17)								
MAY , 1975								
19...	30	260	3500	100000	2100	100	69	22
01210003 - STAMFORD HARBOR AT STAMFORD,CT. (LAT 41 01 08 LONG 073 32 12)								
MAY , 1975								
19...	17	180	2200	66000	.0	100	57	14
01211230 - GREENWICH HARBOR AT GREENWICH, CT. (LAT 41 00 40 LONG 073 37 32)								
JUNE, 1975								
06...	26	300	3800	93000	1700	100	79	15
01211232 - GREENWICH HARBOR AT GREENWICH, CT. (LAT 41 00 28 LONG 073 37 23)								
JUNE, 1975								
06...	30	230	3100	83000	1200	100	59	23
01211234 - GREENWICH HARBOR AT GREENWICH, CT. (LAT 41 00 14 LONG 073 37 18)								
JUNE, 1975								
06...	8	72	840	31000	260	100	16	8

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ANALYSES OF MISCELLANEOUS STATIONS

CONNECTICUT RIVER BASIN

DATE	TIME	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	HARD-NESS (CA,MG) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	SALIN-ITY (PPT)
01193877 - CONNECTICUT RIVER ABOVE SELDON CK AT BROCKWAY,CT (LAT 41 23 19 LONG 072 24 48)												
JUNE, 1975												
12...	1235	7.0	18.0	8.5	90	0	0	11	1.3	33	96	--
01194727 - CONNECTICUT RIVER ABOVE NORTH COVE AT ESSEX, CT. (LAT 41 21 05 LONG 072 22 48)												
JUNE, 1975												
12...	1225	7.1	18.5	8.5	91	0	0	9.8	1.5	31	117	--
01194795 - CONNECTICUT R ABOVE RR BRIDGE AT OLD LYME, CT. (LAT 41 18 54 LONG 072 20 56)												
JUNE, 1975												
12...	1205	7.6	18.5	8.1	90	20	30	95	230	1200	11100	6.5
01194820 - CONNECTICUT RIVER AT MOUTH AT LYNDE POINT, CT. (LAT 41 16 02 LONG 072 20 31)												
JUNE, 1975												
12...	1145	8.0	15.0	8.5	96	40	20	250	1000	4700	32000	20

SECTION 2. GROUND WATER RECORDS

POQUONOCK RIVER BASIN

412013072030601. (GT 19)
LOCATION.--Lat 41°20'13", long 72°03'06"; 150 ft (46 m) east and 48 ft (15 m) north of junction of Poquonock Ave (High Rock Rd) with Thomas Rd and Tower Rd, Groton; New London County; New London Quadrangle.
OWNER.--John E. Ackley, Jr.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Dug, unused, water-table, diam 24 in (61 cm), depth 18 ft (5 m), stone-lined.
PERIOD OF RECORD.--June 1958 to current year.
LAND SURFACE DATUM.--Altitude of datum is 22 ft (7 m), from topographic map; measuring point, bottom of fieldstone on west side of well at lsd.
EXTREMES.--Period of record: Highest water level, 9.98 ft (3.04 m) Apr. 6, 1970; lowest, 17.97 ft (5.48 m) Oct. 6, 1963.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	13	16.89	Dec	14	15.62	Feb	20	14.32	Apr	20	14.25	June	20	14.82	Aug	20	16.78
	20	16.59		20	14.78		27	12.94		29	14.53		29	15.38		27	16.95
	28	16.66	Jan	4	14.80	Mar	5	12.87	May	8	14.69	July	6	15.71	Sept	3	16.97
Nov	4	16.80		14	13.87		13	13.75		12	15.00		13	15.95		11	17.10
	11	16.90		20	13.25		20	13.78		20	14.72		20	16.10		20	17.15
	20	17.19		27	13.07		28	13.60		28	15.00		28	16.33		29	16.15
	29	17.02	Feb	3	13.23	Apr	7	13.13	June	6	15.37	Aug	3	16.50			
Dec	7	16.52		8	13.59		14	13.67		15	14.85		12	16.66			

THAMES RIVER BASIN

414911071562001. (BK 41)
LOCATION.--Lat 41°49'11", long 71°56'20"; 725 ft (221 m) east of Barrett Hill Rd and 66 ft (20 m) north of Darby Rd, Brooklyn; Windham County; Danielson Quadrangle.
OWNER.--Richard Brouillard.
AQUIFER.--Noncarbonate crystalline bedrock.
WELL CHARACTERISTICS.--Drilled, unused, artesian, diam 6 in (15 cm), depth 107 ft (33 m), steel casing to 9 ft (3 m).
PERIOD OF RECORD.--March 1957 to current year.
LAND SURFACE DATUM.--Altitude of datum is 330 ft (101 m), from topographic map; measuring point, top of casing 1.15 ft (0.35 m) above lsd.
EXTREMES.--Period of record: Highest water level, 4.05 ft (1.23 m) Mar 24, 1972; lowest, 17.60 ft (5.36 m) Sept. 27, 1957, formerly reported dry Aug. 26, 1974.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	24	10.91	Dec	26	8.46	Feb	24	8.70	Apr	21	9.28	June	25	11.13	Aug	25	13.83
Nov	-	-	Jan	23	6.58	Mar	21	6.28	May	20	9.98	July	25	12.58	Sept	24	14.48

414548072114501. (MS 19)
LOCATION.--Lat 41°45'48", long 72°11'45"; 400 ft (122 m) east of State Route 195 and 225 ft (69 m) north of Cemetery Rd, Mansfield; Tolland County; Spring Hill Quadrangle.
OWNER.--C. T. DeBoer.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Dug, unused, water-table, diam 36 in (91 cm), depth 22 ft (7 m), concrete tile.
PERIOD OF RECORD.--May 1958 to current year.
LAND SURFACE DATUM.--Altitude of datum is 260 ft (79 m), from topographic map; measuring point, top of tile at lsd.
EXTREMES.--Period of record: Highest water level, 8.89 ft (2.71 m) Mar. 24, 1972; lowest, 15.72 ft (4.79 m) Jan. 26, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	24	12.29	Dec	26	10.77	Feb	24	10.57	Apr	21	10.20	June	25	10.94	Aug	25	12.82
Nov	22	12.08	Jan	23	10.30	Mar	21	10.14	May	20	10.63	July	25	11.62	Sept	24	13.24

414054071552001. (PL 1)
LOCATION.--Lat 41°40'54", long 71°55'20"; 195 ft (59 m) south of Pleasant St 1300 ft (400 m) east of junction with State Route 14, Plainfield; Windham County; Plainfield Quadrangle.
OWNER.--Clifford Starkweather.
Aquifer.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Dug, unused, water-table; diam 36 in (91 cm), depth 34 ft (10 m), brick-lined.
PERIOD OF RECORD.--October 1942 to current year.
LAND SURFACE DATUM.--Altitude of datum is 180 ft (55 m), from topographic map; measuring point, top of stone curb at lsd.
EXTREMES.--Period of record: Highest water level, 27.24 (8.30 m) Apr. 28, 1953; lowest, 33.22 ft (10.13 m) Feb. 11, 1966.
REMARKS.--Recorder removed June 25, 1968. Affected by a pumping well 2000 ft (610 m) distance since about August 1962.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	24	31.32	Dec	26	30.37	Feb	24	29.46	Apr	21	29.10	June	25	30.38	Aug	25	31.23
Nov	25	31.23	Jan	23	29.84	Mar	21	29.28	May	20	29.68	July	25	30.75	Sept	24	31.68

414615072581601. (BU 2)
LOCATION.--Lat 41°46'15", long 72°58'16"; 95 ft (31 m) north of State Route 4 at junction with Route 69, Burlington; Hartford County; Collinsville Quadrangle.
OWNER.--Snow Realty, Bristol, Conn.
AQUIFER.--Glacial till of Pleistocene age.
WELL CHARACTERISTICS.--Dug, unused, water-table, diam 36 in (91 cm), depth 37 ft (11 m), stone-lined.
PERIOD OF RECORD.--April 1946 to current year.
LAND SURFACE DATUM.--Altitude of datum is 880 ft (268 m), from topographic map; measuring point, top of curb, 3.00 ft (0.91 m) above lsd.
EXTREMES.--Period of record: Highest water level, 12.70 ft (3.87 m) Aug. 19, 1955; lowest, 37.41 ft (11.40 m) Dec. 22, 1948.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	26.73	Dec	26	19.94	Feb	25	18.10	Apr	22	17.29	June	24	18.90	Aug 25	20.10
Nov	22	24.02	Jan	28	17.90	Mar	24	17.40	May	22	17.95	July	24	19.90	Sept 24	23.35

413033072432001. (MF 1)
LOCATION.--Lat 41°30'33", long 72°43'20", about 100 ft (30 m) east of West St and about 600 ft (183 m) south of State Route 147, Middlefield; Middlesex County; Middletown Quadrangle.
OWNER.--The Leisure Group Inc. (Lyman Products for Shooters).
AQUIFER.--Glacial till of Pleistocene age.
WELL CHARACTERISTICS.--Dug, unused, water-table, diam 24 in (61 cm), depth 22 ft (7 m), stone-lined.
PERIOD OF RECORD.--July 1946 to current year.
LAND SURFACE DATUM.--Altitude of datum is 260 ft (79 m), from topographic map; measuring point, top of flagstone curb, north side, at lsd.
EXTREMES.--Period of record: Highest water level, 3.02 ft (0.92 m) Mar. 22, 1974; lowest, 16.92 ft (5.16 m) Nov. 24, 1964.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	11.00	Dec	23	5.57	Feb	24	7.68	Apr	21	7.75	June	30	8.34	Aug 25	11.05
Nov	21	8.33	Jan	22	3.90	Mar	21	3.25	May	20	7.30	July	25	8.90	Sept 24	12.56

413254072335501. (MT 261)
LOCATION.--Lat 41°32'54", long 72°33'55"; about 200 ft (61 m) east of River Rd. and 200 ft (61 m) northwest of Bldg. 450, Middletown; Middlesex County; Middle Haddam Quadrangle.
OWNER.--United Aircraft Corp., Hartford, Conn.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Dug, unused, water-table, diam 36 in (91 cm), depth 27.6 ft (8.4 m), stone-lined.
PERIOD OF RECORD.--March 1956 to current year.
LAND SURFACE DATUM.--Altitude of datum is 145 ft (44 m), from topographic map; measuring point, top of stone cover at lsd.
EXTREMES.--Period of record: Highest water level, 17.86 ft (5.44 m) June 26, 1972 formerly reported as 10.46 ft (3.19 m) May 21, 1970; lowest, dry Dec. 2, 1957.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	23.90	Dec	23	19.10	Feb	26	19.20	Apr	24	21.50	June	30	20.64	Aug 26	22.95
Nov	21	23.28	Jan	27	18.32	Mar	26	18.68	May	20	19.65	July	25	21.52	Sept 24	24.25

414910072372101. (SW 64)
LOCATION.--Lat 41°49'10", long 72°37'21"; 15 ft (5 m) north of apartment building at 652-9 Main St., South Windsor; Hartford County; Manchester Quadrangle.
OWNER.--Frank Pierce, Jr.
AQUIFER.--Stratified drift of Pleistocene age (sand).
WELL CHARACTERISTICS.--Dug, unused, water-table, diam. 24 in (61 cm), depth 18 ft (5 m), brick-lined.
PERIOD OF RECORD.--November 1934 to September 1939, October 1948 to current year.
LAND SURFACE DATUM.--Altitude of datum is 40 ft (12 m), from topographic maps; measuring point, top edge of hole in flagstone cover, 0.50 ft (0.15 m) above lsd.
EXTREMES.--Period of record: Highest water level, 7.15 ft (2.18 m) Mar. 30, 1936; lowest, 15.22 ft (4.64 m) Jan. 26, 1966.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	24	11.08	Dec	26	10.55	Feb	24	10.30	Apr	21	9.93	June	25	11.08	Aug 25	11.48
Nov	22	11.08	Jan	24	10.20	Mar	21	9.77	May	20	10.59	July	25	10.71	Sept 24	11.74

MILL RIVER BASIN
(east of Housatonic River)

411829072542001. (NHN 179)
LOCATION.--Lat 41°18'29", long 72°54'20"; 1 ft (0.3 m) north of parking lot curb, 40 ft (12 m) south of Grand Ave centerline, and 220 ft (67 m) west of Haven St, New Haven; New Haven County; New Haven Quadrangle.
OWNER.--Porto Construction Co.
AQUIFER.--Stratified drift of Pleistocene age (sand).
WELL CHARACTERISTICS.--Drive, unused, water-table, diam 3 in (7.6 cm), depth 64 ft (20 m), formerly reported as 65 ft.
PERIOD OF RECORD.--July 1939 to November 1947 and January 1957 to current year.
LAND SURFACE DATUM.--Datum is 13.95 ft (4.25 m), formerly reported as 13.76 ft (4.19 m), above mean sea level; measuring point, top of casing, 0.4 ft (0.1 m) above lsd.
EXTREMES.--Period of record: Highest water level, 9.30 ft (2.83 m) May 21, 1975; lowest, 21.53 ft (6.56 m) July 30, 1957, date formerly reported as July 26, 1971.
REMARKS.--Unpublished records for January 1957 to December 1959 available in U.S.G.S. Hartford office. Water levels affected by pumping at least through 1974, based on long term hydrograph. Water level for Mar. 22, 1974 should be above mean sea level instead of below as reported in 1974. Water levels formerly reported as feet below mean sea level.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 to SEPTEMBER 1975

Oct	25	16.42	Dec	23	15.50	Feb	26	12.65	Apr	23	12.00	June 25	11.10	Aug 26	11.15
Nov	22	16.27	Jan	22	13.93	Mar	25	12.15	May	21	9.50	July 25	11.08	Sept 24	10.96

411843072543901. (NHN 355)
LOCATION.--Lat 41°18'43', long 72°54'39"; in southwest corner of playground near intersection of Walnut and Wallace Sts, New Haven; New Haven County; New Haven Quadrangle.
OWNER.--City of New Haven.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Bored, unused, water-table, diam 1 1/4 in (3.2 cm), depth 39 ft (12 m), screened 36-39 ft (11-12 m).
PERIOD OF RECORD.--Water levels: August 1971 to current year.
Chemical analyses: August 1971 to April 1975.
LAND SURFACE DATUM.--Altitude of datum is 25 ft (8 m), from topographic map; measuring point, top of pipe coupling at lsd.
EXTREMES.--Period of record: Highest water level, 23.70 ft (7.22 m) Apr. 23, 1975; lowest, 29.40 ft (8.96 m) Feb. 28, 1972.
REMARKS.--Well destroyed by vandals May 1975.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, AND WATER QUALITY DATA, OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH BELOW LAND SURFACE (FT)	TEMPERATURE (DEG C)	DISSOLVED CHLORIDE (CL) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT.					
25...	1310	28.48	12.0	320	1850
NOV.					
22...	1155	28.63	9.5	350	1810
DEC.					
23...	1250	27.70	11.0	320	--
JAN.					
22...	1200	27.33	12.0	330	780
FEB.					
27...	1015	24.63	--	330	1400
MAR.					
25...	1535	23.85	8.5	110	800
APR.					
23...	1210	23.70	--	--	--
24...	1205	--	9.0	71	--

411843072544001. (NHN 364)
LOCATION.--Lat. 41°18'43", long 72°54'40", on Connecticut Dept of Transportation I-91 right-of-way, 15 ft (4.6 m) west of Wallace St and 25 ft (8 m) south of Walnut St, New Haven; New Haven County; New Haven Quadrangle.
OWNER.--Connecticut Department of Transportation.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Bored, unused, water-table, diam 2 in (5 cm), depth 41 ft (12 m),plastic casing slotted 36-41 ft (11-12 m).
PERIOD OF RECORD.--Water levels: September 1975.
Chemical analyses: September 1975.
LAND SURFACE DATUM.--Altitude of datum is 27 ft (8 m), from topographic map; measuring point, top of steel nipple at lsd.
REMARKS.--Drilled August 1975 to replace NHN 355, about 100 ft (30 m) northeast.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, AND WATER QUALITY DATA, OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH BELOW LAND SURFACE (FT)	TEMPERATURE (DEG C)	DISSOLVED CHLORIDE (CL) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
SEP.					
30...	1030	21.25	14.5	310	1320

WEST RIVER BASIN
(west of Quinnipiac River)

411838072570701. (NHN 175)
LOCATION.--Lat 41°18'38", long 72°57'07"; in storage room of Monarch Laundry at Derby Ave and Ellsworth St, New Haven; New Haven County; New Haven Quadrangle.
OWNER.--Monarch Laundry.
AQUIFER.--Stratified drift of Pleistocene age (sand).
WELL CHARACTERISTICS.--Drilled, unused, water-table, diam 6 in (15 cm), depth 54 ft (16 m).
PERIOD OF RECORD.--June 1939 to current year.
LAND SURFACE DATUM.--Datum is 32.84 ft (10.01 m) above mean sea level; measuring point, top of shelf, 1.0 ft (0.3 m) above lsd.
EXTREMES.--Period of record: Highest water level, 27.42 ft (8.36 m) May 28, 1953; lowest, 30.57 ft (9.32 m) Dec. 17, 1941.
REMARKS.--Water levels formerly reported as feet above mean sea level.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	28.27	Dec	23	28.37	Feb	26	28.47	Apr	23	29.50	June	25	28.39	Aug 26	28.40
Nov	22	28.35	Jan	21	28.38	Mar	25	28.48	May	21	28.45	July	25	28.40	Sept 24	28.36

411834072570701. (NHN 358)
LOCATION.--Lat 41°18'43", long 72°57'07"; in Barnard School yard, 150 ft (46 m) south of Derby Ave and 5 ft (2 m) from east property line, New Haven; New Haven County; New Haven Quadrangle.
OWNER.--New Haven School Dept.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Bored, unused, water-table, diam 1 1/4 in (3.2 cm), depth 44 ft (13 m), screened 41-44 ft (12-13 m).
PERIOD OF RECORD.--Water levels: August 1971 to current year.
Chemical analyses: August 1971 to current year.
LAND SURFACE DATUM.--Altitude of datum is 25 ft (8 m), from topographic map; measuring point, top of pipe coupling at lsd.
EXTREMES.--Period of record: Highest water level, 24.60 ft (7.50 m) June 27, 1972; lowest, 26.56 ft (8.10 m) Sept. 25, 1974.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, AND WATER QUALITY DATA, OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH BELOW LAND SURFACE (FT)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT.											
25...	1100	26.32	--	--	12.0	--	--	--	--	--	--
NOV.											
22...	1000	26.40	--	--	11.5	--	--	--	--	--	--
DEC.											
23...	1045	26.35	--	--	--	--	--	--	--	--	--
JAN.											
22...	1115	26.19	--	--	14.0	--	--	--	--	--	--
FEB.											
27...	1100	26.05	--	--	--	--	--	--	--	--	--
MAR.											
25...	1315	25.90	--	--	14.0	--	--	--	--	--	--
APR.											
24...	1045	26.00	--	--	13.5	--	--	--	--	--	--
MAY											
21...	1120	25.85	--	--	14.0	--	--	--	--	--	--
JUNE											
25...	1145	24.88	7.8	26.5	16.0	16	74	20	219	0	180
JULY											
25...	1150	25.85	--	--	--	--	--	--	--	--	--
AUG.											
26...	1110	26.00	--	--	--	--	--	--	--	--	--
SEP.											
30...	0930	26.05	--	--	16.5	--	--	--	--	--	--

WEST RIVER BASIN
(west of Quinnipiac River)--continued

411834072570701. (NHN 358)--continued

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, AND WATER QUALITY DATA, OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT.										
25...	--	16	--	--	--	--	--	--	--	--
NOV.										
22...	--	20	--	--	--	--	--	--	--	--
DEC.										
23...	--	21	--	--	--	--	--	--	--	--
JAN.										
22...	--	22	--	--	--	--	--	--	--	--
FEB.										
27...	--	27	--	--	--	--	--	--	--	--
MAR.										
25...	--	23	--	--	--	--	--	--	--	--
APR.										
24...	--	25	--	--	--	--	--	--	--	--
MAY										
21...	--	25	--	--	--	--	--	--	--	--
JUNE										
25...	86	30	.02	4.9	.01	.16	.17	5.1	22	.04
JULY										
25...	--	28	--	--	--	--	--	--	--	--
AUG.										
26...	--	28	--	--	--	--	--	--	--	--
SEP.										
30...	--	33	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
25...	--	--	--	--	--	430	--	--	--	--
NOV.										
22...	--	--	--	--	--	400	--	--	--	--
DEC.										
23...	--	--	--	--	--	470	--	--	--	--
JAN.										
22...	--	--	--	--	--	640	--	--	--	--
FEB.										
27...	--	--	--	--	--	570	--	--	--	--
MAR.										
25...	--	--	--	--	--	650	--	--	--	--
APR.										
24...	--	--	--	--	--	--	--	--	--	--
MAY										
21...	--	--	--	--	--	465	--	--	--	--
JUNE										
25...	670	698	.91	270	88	1000	1	9	5.6	.1
JULY										
25...	--	--	--	--	--	--	--	--	--	--
AUG.										
26...	--	--	--	--	--	--	--	--	--	--
SEP.										
30...	--	--	--	--	--	480	--	--	--	--

HOUSATONIC RIVER BASIN

413007073250501. (BD 8)
LOCATION.--Lat 41°30'07", long 73°25'05"; 50 ft (15 m) south and 10 ft (3 m) east of parking area along State Route 7 at north town line, Brookfield; Fairfield County; New Milford Quadrangle.
OWNER.--U.S. Geological Survey.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Bored, unused, water-table, diam 1 1/4 in (3.2 cm), depth 53 ft (16 m), plastic casing to 50 ft (15 m), well point 50-53 ft (15-16 m).
PERIOD OF RECORD.--January 1967 to current year.
LAND SURFACE DATUM.--Altitude of datum is 255 ft (78 m), from topographic map; measuring point, top of casing, 0.40 ft (0.12 m) above lsd.
EXTREMES.--Period of record: Highest water level, 26.89 ft (8.20 m) June 26, 1972; lowest, 33.05 ft (10.07 m) Jan. 4, 1967.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	22	31.74	Dec	26	30.70	Feb	25	29.35	Apr	22	28.90	June	24	30.18	Aug	25	31.15
Nov	22	31.96	Jan	27	29.55	Mar	24	28.88	May	22	29.23	July	24	31.00	Sept	24	31.75

412429073165101. (NT 15)
LOCATION.--Lat 41°24'29", long 73°16'51"; 0.65 mi (1.05 km) southwest of State Route 34 on Mile Hill Rd and 0.25 mi (0.40 km) north on a Fairfield State Hospital road, Newtown; Fairfield County; Newtown Quadrangle.
OWNER.--U.S. Geological Survey.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Bored, unused, water-table, diam 1 1/4 in (3.2 cm), depth 33 ft (10 m), plastic casing to 31 ft (9 m), well point 31-33 ft (9-10 m).
PERIOD OF RECORD.--January 1967 to current year.
LAND SURFACE DATUM.--Altitude of datum is 265 ft (81 m), from topographic map; measuring point, top of casing 2.40 ft (0.73 m) above lsd.
EXTREMES.--Period of record: Highest water level 0.61 ft (0.19 m) June 26, 1972; lowest, 10.50 ft (3.20 m) Oct. 23, 1971.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	3.56	Dec	26	2.32	Feb	25	2.06	Apr	22	3.10	June 24	5.79	Aug 25	6.00
Nov	22	4.13	Jan	29	2.39	Mar	24	2.38	May	22	3.77	July 24	4.70	Sept 24	6.38

420125073193001. (NOC 7)
LOCATION.--Lat 42°01'25", long 73°19'30"; 300 ft (91 m) south and 75 ft (23 m) west of junction of State Routes 7 and 44, North Canaan; Litchfield County; Ashley Falls Quadrangle.
OWNER.--James Lyle.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Dug, unused, water-table, diam 24 in (61 cm), depth 12 ft (4 m), stone-lined.
PERIOD OF RECORD.--August 1958 to current year.
LAND SURFACE DATUM.--Altitude of datum is 675 ft (206 m), from topographic map; measuring point, top of small curving knob on rock, north side, at lsd.
EXTREMES.--Period of record: Highest water level, 7.60 ft (2.32 m) Mar. 26, 1963; lowest, 11.12 ft (3.39 m) Sept. 5, 1961.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	21	9.14	Dec	26	9.00	Feb	25	9.01	Apr	22	9.32	June 24	9.20	Aug 25	9.67
Nov	22	9.04	Jan	27	9.05	Mar	24	9.00	May	22	9.34	July 24	9.04	Sept 24	9.42

414910073072301. (T 2)
LOCATION.--Lat 41°49'10", long 73°07'23"; in storeroom of machine shop, Warrenton Woolen Co., Torrington; Litchfield County; Torrington Quadrangle.
OWNER.--Warrenton Woolen Co.
AQUIFER.--Noncarbonate crystalline bedrock.
WELL CHARACTERISTICS.--Drilled, unused, artesian, diam 8 in (20 cm), depth 381 ft (116 m), cased to 34 ft (10 m).
PERIOD OF RECORD.--August 1958 to current year.
LAND SURFACE DATUM.--Altitude of datum is 650 ft (198 m), from topographic map; measuring point, top of casing at lsd.
EXTREMES.--Period of record: Highest water level, 5.02 ft (1.53 m) May 8, 1972; lowest, 8.60 ft (2.62 m) Sept. 28, 1964.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	1	5.95	Dec	2	6.33	Feb	3	6.05	Apr	14	6.08	June 16	6.02	Aug 18	6.65
	7	6.40		9	5.64		10	6.35		21	6.32	23	6.37	25	6.88
	14	6.60		16	6.04		17	6.55		28	6.30	30	6.65	Sept 2	6.84
	21	6.42		23	6.12		24	6.04	May	5	6.18	July 7	7.00	8	7.02
	29	6.56		30	6.31	Mar	3	5.84		12	6.08	14	6.20	15	7.09
Nov	4	6.38	Jan	6	6.45		10	6.08		19	5.98	21	5.74	25	7.10
	11	6.45		13	5.55		17	6.10		27	6.28	27	6.18	29	5.33
	19	6.35		20	5.62		24	5.64	June	2	6.50	Aug 4	6.58		
	25	6.24		27	5.82		31	5.83		9	6.37	11	6.28		
						Apr	8	5.72							

413134073021701. (WB 93)
LOCATION.--Lat 41°31'34", long 73"02'17"; 10 ft (3 m) east of house at 118 Pearl Hill Rd., Waterbury; New Haven County; Waterbury Quadrangle.
OWNER.--Mrs. Simeon W. Nichols
AQUIFER.--Stratified drift of Pleistocene age (gravel).
WELL CHARACTERISTICS.--Dug, unused, water-table, diam 32 in (81 cm), depth 33 ft (10 m), stone-lined.
PERIOD OF RECORD.--February 1944 to current year.
LAND SURFACE DATUM.--Altitude of datum is 320 ft (98 m), from topographic map; measuring point, bottom edge of flagstone, northwest corner of well, at lsd.
EXTREMES.--Period of record: Highest water level, 23.99 ft (7.31 m) Apr. 1, 1953; lowest, 29.68 ft (9.05 m) Sept. 27, 1962.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	27.20	Dec	26	25.10	Feb	25	26.90	Apr	22	26.59	June 24	27.53	Aug 25	27.85
Nov	21	27.37	Jan	25	25.77	Mar	24	26.40	May	22	27.20	July 24	27.20	Sept 24	28.06

HOUSATONIC RIVER BASIN--continued

413245072584201. (WB 198)
LOCATION.--Lat 41°32'45", long 72°58'42"; 10 ft (3 m) north of house at 185 Pierpont Rd, Waterbury; New Haven County; Southington Quadrangle.
OWNER.--A. Baker.
AQUIFER.--Glacial till of Pleistocene age.
WELL CHARACTERISTICS.--Dug, unused, water-table, diam 30 in (76 m), depth 31 ft (9 m), stone-lined.
PERIOD OF RECORD.--February 1944 to current year.
LAND SURFACE DATUM.--Altitude of datum is 540 ft (165 m), from topographic map; measuring point, top of flagstone curb at southeast corner at lsd.
EXTREMES.--Period of record: Highest water level, 5.45 ft (1.66 m) Jan. 10, 1946; lowest, 21.00 ft (6.40 m) Nov. 26, 1949.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	15.50	Dec	26	12.39	Feb	25	12.20	Apr	22	11.65	June	24	13.37	Aug 25 14.90
Nov	22	15.55	Jan	27	10.84	Mar	24	11.33	May	22	12.49	July	24	14.25	Sept 24 16.85

413202073122401. (WY 1)
LOCATION.--Lat 41°32'02", long 73°12'24"; about 75 ft (23 m) east of Main St and 21 ft (6 m) north of Irene Thulin House and about 500 ft (152 m) south of Orenaug Rd, Woodbury; Litchfield County; Woodbury Quadrangle.
OWNER.--Irene Boultbee.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Dug, unused, water-table, diam 30 in (76 cm), depth 31 ft (9 m), stone-lined.
PERIOD OF RECORD.--October 1913 to December 1916, April 1944 to current year.
LAND SURFACE DATUM.--Altitude of datum is 270 ft (82 m), from topographic map; measuring point, top of angle iron on cover, 2.62 ft (0.80 m) above lsd.
EXTREMES.--Period of record: Highest water level, 19.44 ft (5.93 m) Apr. 1, 1953; lowest, 31.00 ft (9.45 m) Oct. 14, 1914.
REMARKS.--Recording gage installed Oct. 5, 1965; removed May 18, 1970. Fluctuation affected by pumping.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	26.71	Dec	26	22.23	Feb	25	20.99	Apr	22	21.88	June	24	23.77	Aug 25 24.33
Nov	22	25.46	Jan	27	20.92	Mar	24	21.38	May	22	22.38	July	24	24.23	Sept 24 26.84

MILL RIVER BASIN
(west of Housatonic River)

411256073153101. (FF 23)
LOCATION.--Lat 41°12'56", long 73°15'31", about 100 ft (30 m) south of Merritt Parkway and about 2000 ft (610 m) southwest of State Route 59 overpass (Exit 46), Fairfield; Fairfield County Westport Quadrangle.
OWNER.--Connecticut Dept. of Transportation, formerly reported as U.S. Geol. Survey.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Bored, unused, water-table, diam 1 1/4 in (3.2 cm), depth 42 ft (13 m), steel casing to 39 ft (12 m), screened 39-42 ft (12-13 m).
PERIOD OF RECORD.--September 1966 to current year.
LAND SURFACE DATUM.--Altitude of datum is 130 ft (40 m), from topographic map; measuring point, top of casing 2.40 ft (0.73 m) above lsd.
EXTREMES.--Period of record: Highest water level, 4.78 ft (1.46 in) June, 23 1972; lowest, 8.79 ft (2.68 m) Sept. 25, 1967.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	8.13	Dec	23	7.74	Feb	26	7.27	Apr	23	8.10	June	25	8.23	Aug 26 8.45
Nov	21	8.12	Jan	21	7.40	Mar	25	7.55	May	21	8.05	July	25	8.08	Sept 24 7.86

LONG ISLAND SOUND

411457072524501. (EHV 70)
LOCATION.--Lat 41°14'57", long 72°52'45"; 300 ft (91 m) west and 65 ft (20 m) north of junction of Cosey Beach Rd with Silver Sands Rd, East Haven; New Haven County; Woodmont Quadrangle.
OWNER.--P. Federico.
AQUIFER.--Glacial till of Pleistocene age.
WELL CHARACTERISTICS.--Dug, unused, water-table, diam 24 in (61 cm), depth 16 ft (5 m), concrete-tile lined.
PERIOD OF RECORD.--August 1935 to June 1939, April 1951 to current year.
LAND SURFACE DATUM.--Altitude of datum is 25 ft (8 m), from topographic map; measuring point, top of concrete tile, east side, 2.10 ft (0.64 m) above lsd.
EXTREMES.--Period of record: Highest water level, 6.44 ft (1.96 m) June 21, 1972; lowest, 16.03 ft (4.89 m) Nov. 22, 1935.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	13.40	Dec	23	10.33	Feb	26	9.03	Apr	23	10.02	June	30	10.87	Aug 26 12.95
Nov	22	13.50	Jan	21	9.19	Mar	27	9.25	May	21	9.80	July	23	12.00	Sept 24 14.79

411842072553601. (NHN 170)
LOCATION.--Lat 41°18'42", long 72°55'36"; in basement of Yale University cafeteria, Grove and College Sts, New Haven; New Haven County; New Haven Quadrangle.
OWNER.--Yale University.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Driven, unused, water-table, diam 2 in (5 cm), depth 31 ft (9 m).
PERIOD OF RECORD.--June 1939 to current year.
LAND SURFACE DATUM.--Datum is 41.09 ft (12.52 m) above mean sea level; measuring point, top of casing 17.70 ft (5.39 m) below lsd.
EXTREMES.--Period of record: Highest water level, 21.78 ft (6.64 m) July 24, 1973; lowest, 25.45 ft (7.76 m) Jan. 14, 1942.
REMARKS.--Water levels formerly reported as feet above mean sea level.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	23.50	Dec	-	-	Feb	26	23.25	Apr	23	23.01	June	-	Aug	26	23.38
Nov	22	23.55	Jan	21	23.60	Mar	25	23.00	May	23	23.00	July	25	23.19	Sept	24	23.58

411805072545801. (NHN 235)
LOCATION.--Lat 41"18'05", long 72°54'58"; inside court of C. Cowles Co northwest corner of Chestnut and Water Sts, New Haven; New Haven County; New Haven Quadrangle.
OWNER.--C. Cowles Co.
AQUIFER.--Stratified drift of Pleistocene age (sand).
WELL CHARACTERISTICS.--Drilled, unused, water-table, diam 8 in (20 cm), depth 39 ft (12 m), screened 28-38 ft (9-12 m).
PERIOD OF RECORD.--October 1940 to current year.
LAND SURFACE DATUM.--Datum is 14.80 ft (4.51 m) above mean sea level; measuring point, seat of manhole cover at lsd.
EXTREMES.--Period of record: Highest water level, 8.85 ft (2.70 m) Mar. 22, 1974; lowest, 17.10 ft (5.21 m) Aug. 31, 1944.
REMARKS.--Water levels formerly reported as feet above or below mean sea level.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Oct	25	12.13	Dec	23	11.90	Feb	26	11.67	Apr	23	11.55	June	25	11.28	Aug	26	11.55
Nov	22	12.12	Jan	21	11.70	Mar	25	11.54	May	21	11.50	July	25	11.44	Sept	24	11.49

411826072553601. (NHN 354)
LOCATION.--Lat 41°18'26", long 72°55'36", On the Green, 70 ft (21 m) southeast of College St and 10 ft (3 m) southwest of centerline of walkway to war memorial opposite Middle Church, New Haven; New Haven County; New Haven Quadrangle.
OWNER.--City of New Haven Park Dept.
AQUIFER.--Stratified drift of Pleistocene age (sand).
WELL CHARACTERISTICS.--Bored, unused, water-table, diam 1 1/4 in (3.2 cm), depth 43 ft (13 m), screened 40-43 ft (12-13 m).
PERIOD OF RECORD.--Water levels: August 1971 to current year.
Chemical analyses: August 1971 to current year.
LAND SURFACE DATUM.--Altitude of datum is 25 ft (8 m), from topographic map; measuring point, top of pipe coupling at lsd.
EXTREMES.--Period of record: Highest water level, 15.26 ft (4.65 m) June 27, 1972; lowest, 19.07 ft (5.81 m) Jan. 3, 1973.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, AND WATER QUALITY DATA, OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH BELOW LAND SURFACE (FT)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
25...	1210	17.78	--	--	12.5	--	--	--	--	--	--
NOV.											
22...	1045	17.65	--	--	11.5	--	--	--	--	--	--
DEC.											
23...	1155	17.34	--	--	14.5	--	--	--	--	--	--
JAN.											
21...	1345	17.35	--	--	--	--	--	--	--	--	--
22...	1200	--	--	--	14.0	--	--	--	--	--	--
FEB.											
27...	1210	17.10	--	--	--	--	--	--	--	--	--
MAR.											
25...	1425	16.90	--	--	14.5	--	--	--	--	--	--
APR.											
23...	1140	16.82	--	--	--	--	--	--	--	--	--
24...	1440	--	--	--	13.5	--	--	--	--	--	--
MAY											
21...	1215	16.90	--	--	14.5	--	--	--	--	--	--
JUNE											
25...	1320	16.89	7.8	26.5	17.0	21	110	13	194	0	159
JULY											
25...	1135	17.15	--	--	--	--	--	--	--	--	--
AUG.											
26...	1145	16.85	--	--	--	--	--	--	--	--	--
SEP.											
30...	0900	16.65	--	--	19.0	--	--	--	--	--	--

LONG ISLAND SOUND--continued

411826072553601. (NHN 354)--continued

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, AND WATER QUALITY DATA, OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT.										
25...	--	120	--	--	--	--	--	--	--	--
NOV.										
22...	--	130	--	--	--	--	--	--	--	--
DEC.										
23...	--	130	--	--	--	--	--	--	--	--
JAN.										
21...	--	--	--	--	--	--	--	--	--	--
22...	--	110	--	--	--	--	--	--	--	--
FEB.										
27...	--	110	--	--	--	--	--	--	--	--
MAR.										
25...	--	110	--	--	--	--	--	--	--	--
APR.										
23...	--	--	--	--	--	--	--	--	--	--
24...	--	130	--	--	--	--	--	--	--	--
MAY										
21...	--	2.5	--	--	--	--	--	--	--	--
JUNE										
25...	75	130	.01	9.1	.01	.14	.15	9.3	41	.01
JULY										
25...	--	100	--	--	--	--	--	--	--	--
AUG.										
26...	--	91	--	--	--	--	--	--	--	--
SEP.										
30...	--	82	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
25...	--	--	--	--	--	880	--	--	--	--
NOV.										
22...	--	--	--	--	--	870	--	--	--	--
DEC.										
23...	--	--	--	--	--	--	--	--	--	--
JAN.										
21...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	1500	--	--	--	--
FEB.										
27...	--	--	--	--	--	770	--	--	--	--
MAR.										
25...	--	--	--	--	--	950	--	--	--	--
APR.										
23...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
MAY										
21...	--	--	--	--	--	760	--	--	--	--
JUNE										
25...	593	629	.81	330	170	760	1	2	4.9	.1
JULY										
25...	--	--	--	--	--	--	--	--	--	--
AUG.										
26...	--	--	--	--	--	--	--	--	--	--
SEP.										
30...	--	--	--	--	--	730	--	--	--	--

LONG ISLAND SOUND--continued

411801072545001. (NHN 356)
LOCATION.--Lat 41°18'01", long 72°54'50"; about 100 ft (30 m) south and 30 (9 m) west of intersection of Hamilton and Water Sts., New Haven; New Haven County; New Haven Quadrangle.
OWNER.--City of New Haven.
AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).
WELL CHARACTERISTICS.--Bored, unused, water-table, diam 1 1/4 in (3.2 cm), depth 41 ft (12 m), screened 38-41 ft (11-12 m).
PERIOD OF RECORD.--Water levels: August 1971 to current year.
Chemical analyses: August 1971 to current year.
LAND SURFACE DATUM.--Altitude of datum is 10 ft (3 m), from topographic map; measuring point, top of steel casing 1.50 ft (0.46 m) above lsd.
EXTREMES.--Period of record: Highest water level, 6.16 ft (1.88 m) Apr. 24, 1974; lowest, 9.72 ft (2.96 m) June 27, 1972.
REMARKS.--Destroyed August 1975.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, AND WATER QUALITY DATA, OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DEPTH BELOW LAND SURFACE (FT)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT.											
25...	1250	8.00	--	--	11.5	--	--	--	--	--	--
NOV.											
22...	1130	8.17	--	--	10.5	--	--	--	--	--	--
DEC.											
23...	1125	7.80	--	--	13.0	--	--	--	--	--	--
JAN.											
21...	1425	7.64	--	--	--	--	--	--	--	--	--
22...	1230	--	--	--	13.0	--	--	--	--	--	--
FEB.											
27...	0955	7.64	--	--	--	--	--	--	--	--	--
MAR.											
25...	1500	7.30	--	--	13.0	--	--	--	--	--	--
APR.											
23...	1205	7.45	--	--	--	--	--	--	--	--	--
24...	1145	--	--	--	13.0	--	--	--	--	--	--
MAY											
21...	1250	7.38	--	--	14.0	--	--	--	--	--	--
JUNE											
25...	1135	--	7.7	30.5	15.0	17	180	52	654	0	536
25...	1420	7.20	--	--	--	--	--	--	--	--	--
JULY											
25...	1220	7.30	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT.										
25...	--	200	--	--	--	--	--	--	--	--
NOV.										
22...	--	180	--	--	--	--	--	--	--	--
DEC.										
23...	--	170	--	--	--	--	--	--	--	--
JAN.										
21...	--	--	--	--	--	--	--	--	--	--
22...	--	160	--	--	--	--	--	--	--	--
FEB.										
27...	--	150	--	--	--	--	--	--	--	--
MAR.										
25...	--	140	--	--	--	--	--	--	--	--
APR.										
23...	--	--	--	--	--	--	--	--	--	--
24...	--	130	--	--	--	--	--	--	--	--
MAY										
21...	--	130	--	--	--	--	--	--	--	--
JUNE										
25...	190	130	.01	9.2	1.1	.20	1.3	11	46	.10
25...	--	--	--	--	--	--	--	--	--	--
JULY										
25...	--	120	--	--	--	--	--	--	--	--

LONG ISLAND SOUND--continued

411801072545001. (NHN 356)--continued

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
25...	--	--	--	--	--	1750	--	--	--	--
NOV.										
22...	--	--	--	--	--	1670	--	--	--	--
DEC.										
23...	--	--	--	--	--	--	--	--	--	--
JAN.										
21...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	1480	--	--	--	--
FEB.										
27...	--	--	--	--	--	1500	--	--	--	--
MAR.										
25...	--	--	--	--	--	1200	--	--	--	--
APR.										
23...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
MAY										
21...	--	--	--	--	--	1280	--	--	--	--
JUNE										
25...	852	1040	1.16	660	130	1290	1	3	21	.2
25...	--	--	--	--	--	--	--	--	--	--
JULY										
25...	--	--	--	--	--	--	--	--	--	--

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